



November 6, 1997

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION I

JOHN F. KENNEDY FEDERAL BUILDING  
BOSTON, MASSACHUSETTS 02203-0001

Mr. Stuart Hurd  
Town Manager  
Town of Bennington  
205 South Street  
Bennington, Vermont 05201

Dear Mr. Hurd:

On September 17, I visited the Jard site on Bowen Road in Bennington, in order to assess whether PCB contamination still existed on site, in the surface soils, and in the fire-damaged building. As we discussed on October 29, the date of my second visit to Jard, results of this September sampling round indicated the presence of PCBs at elevated levels on surfaces (floors and walls) in the rear area of the building. Samples taken of surface soils also indicated PCB contamination, with the highest soil sample concentration measuring 120 ppm. I enclose results of the first round of sampling, along with a rough sketch indicating where the samples were taken, marked with the PCB concentrations.

As a result of these existing site conditions, I recommended to you that the building be secured, as I understand that the building has been condemned since the fire, and since the presence of PCBs in the wipe samples taken in September indicates that materials in the building have been contaminated. Please advise me if these measures have been taken. You may contact me at (617) 573-9670.

Thank you very much for your assistance.

Sincerely,

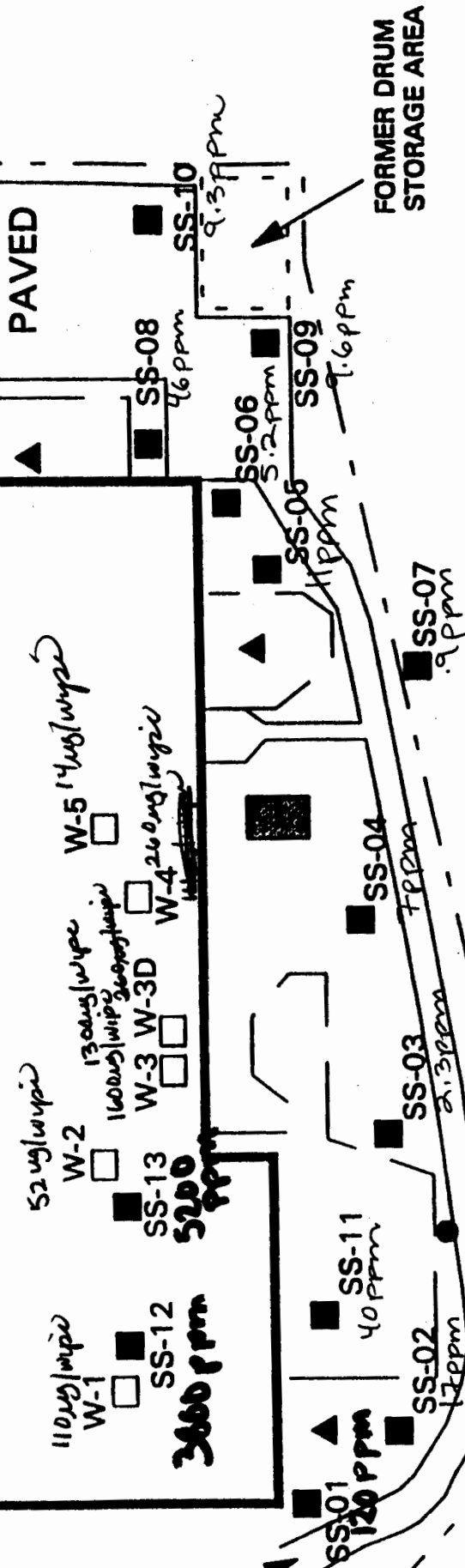
Mary Ellen Stanton  
On-Scene Coordinator

cc: Dave McIntyre, Chief, Site Evaluation and Response Section I  
Stan Corneille, VT DEC, Waste Management Division  
Jard Site File



Recycled/Recyclable  
Printed with Soy/Canola Ink on paper that  
contains at least 75% recycled fiber

# JARD COMPANY, INC. BUILDING



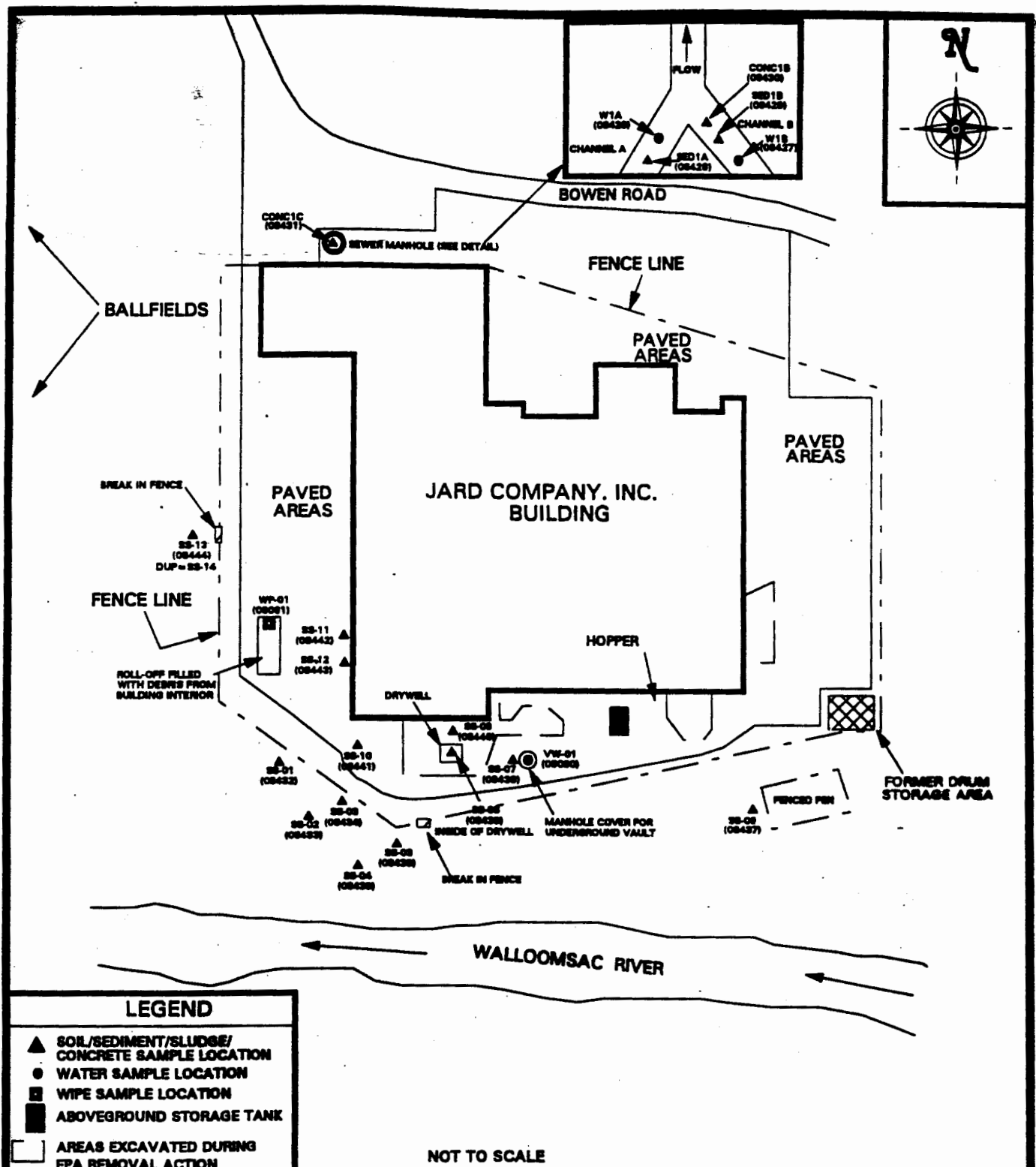
FORMER DRUM  
STORAGE AREA

PAVED

PCB  
sampling results  
September 1997

END

Site Location



**FIGURE 4**

**SAMPLE LOCATION MAP\***  
**JARD COMPANY, INC. SITE**  
**BENNINGTON, VERMONT**

\*SAMPLES COLLECTED 29 OCTOBER 1997

**WESTON.**  
 MANAGERS DESIGNERS/CONSULTANTS

REGION I SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

DRAWN MAVRIS	DATE 11/97	PCS No. 2785F4A.DRW
APPROVED RESCA	DATE 11/97	TDD No. 97-09-0006



ENVIRONMENTAL PROTECTION AGENCY

REGION 1

CHAIN OF CUSTODY RECORD

Samples Collected by: Roy F. Winston, Inc., START  
317 Middlesex Turnpike  
Burlington, MA 01803  
Phone: (617) 329-4430  
Fax: (617) 372-3619

TBD # 97-09-0005  
P# 2765

PROJ. NO. 10046 PROJECT NAME Third Company  
Burlington, Vermont

NO. OF  
CON-  
TAINERS

REMARKS

1 OF 2

1242

EPA Sample Number

1242

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	CONTAINERS	REMARKS	EPA Sample Number	ANALYST
WJA	10/31/97	1030			Water Sample - Channel A - large flow (Catch Basin)	5 x 100ml		084306	ND
WJB	10/31/97	1035			Water Sample - Channel B - medium flow (Catch Basin)	3 x 100ml		084307 - Manual water catchment	29 mg/kg Channel
SEDA	10/31/97	1050			Sediment - Catch Basin Channel A	1 x 400ml		084308 - WBT	42 mg/kg
SEDB	10/31/97	1045			Sediment - Catch Basin Channel B	1 x 400ml		084309	42 mg/kg
CONCIB	10/31/97	1100			Concrete - Catch Basin Channel B	1 x 800ml		084310	1.0 mg/kg
CONCIC	10/31/97	1110			Loose Concrete/Soil around rim of Catch Basin	1 x 800ml		084311	0.5 mg/kg
SS-01	10/31/97	1400			South of fence west of building - 0-4"	1 x 400ml		084312	1000 mg/kg
SS-02	10/31/97	1402			South of fence west of building - 0-6"	1 x 400ml		084313	11 mg/kg
SS-03	10/31/97	1405			South of fence west of building - 0-4"	1 x 400ml		084314	11 mg/kg
SS-04	10/31/97	1408			South of fence west of building - 0-6"	1 x 400ml		084315	6.7 mg/kg
SS-05	10/31/97	1411			South of fence west of building - 0-8"	1 x 400ml		084316	41 mg/kg
SS-06	10/31/97	1430			South of fence east of building - 0-8"	1 x 400ml		084317	1.1 mg/kg
SS-07	10/31/97	1500			West of Unit Cover - 18 to 30"	1 x 400ml		084318	5.9 mg/kg
SS-08	10/31/97	1510			Surface Material from Unit Cover	1 x 400ml		084319	26 mg/kg
SS-09	10/31/97	1515			North of Unit Cover - 1 to 12"	1 x 400ml		084320	38 mg/kg
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## CHAIN OF CUSTODY RECORD

01803  
Phone: (67) 229-6430  
Fax: (67) 229-9619

TDB NO: 97-09-0005  
P/S NO: 2765

REMARKS  
2072

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		REMARKS	
10044		Third Company Barrington, VT				TDD NO: 97-09-0005 PDS NO: 3765	
SAMPLERS: (Signature)							
J.C. Sam							
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	REMARKS
55-10	10/29/97	1505		X	Soil - near and south west corner of bldg 6-9"	1240m1	08441 110mg/kg
55-11	10/29/97	1510		X	Soil - along west wall of bldg 3-6"	1240m1	08442 124mg/kg
55-12	10/29/97	1515		X	Soil - along west wall of bldg - rear door 6-9"	1240m1	08443 30mg/kg
55-13	10/29/97	1555		X	Soil - west of fence near opening 0-2"	1240m1	08444 ND
55-14	10/29/97	1555		X	Soil - west of fence 0-2"	1240m1	08445 ND
WP-01	10/29/97	1600		X	Water from bottom of vault 7' deep	1240m2	08060 (trace) ND
WP-01	10/29/97	1600		X	WP sample - electronic test tube in roll off	1240m2	08061 (trace) 490mg/kg
WP-01	10/29/97	1600		X	WP blank	1240m2	05710 (trace) 615mg/kg
WP-02	10/29/97	1600		X	Dry WP for weight	1240m2	05015
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**1-94**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 1  
ENVIRONMENTAL SERVICES DIVISION  
60 WESTVIEW STREET  
LEXINGTON, MASSACHUSETTS 02173-3185

*Mary Ellen  
Stanton*

DATE: November 28, 1997  
SUBJ: Analysis of Polychlorinated Biphenyls (PCBs) in Water Samples  
- JARD, INC.  
FROM: Peter Philbrook, Chemistry Section  
THRU: Dr. William J. Andrade, Advanced Analytical Chemistry Specialist  
TO: Mary Ellen Stanton

PROJECT NUMBER: 98046

ANALYTICAL PROCEDURE:

All samples were received and logged in by the laboratory according to the Sop for Sample Login (EIA-ADMLOGN1.SOP, 7/97).

Sample preparation was done by the EPA Multi-Media Consensus Organics Protocol - Revised 8/87. The analysis was carried out using high resolution capillary column chromatography. The 30-m dual capillary system consists of J&W DB-1701 and J&W DB-5, both with a 0.25mm ID and a 0.25 micron film thickness.

The analytical support for this report was performed by AARP contractors.

Date Samples Received by the Laboratory: 10/30/97

Date Analysis Started: 11/10/97

cc:

File: J:\CHEMISTRY\REPORTS\PCB-PEST\98046WA.PCB

**US ENVIRONMENTAL PROTECTION AGENCY  
60 Westview Street  
Lexington, MA 02173**

**QUALITY CONTROL:**

1. One method blank was included in the analysis.
2. Each sample was spiked with the surrogate compounds, decachlorobiphenyl and tetrachloroxylene, at a concentration of 2.5 ug/L. The results for the surrogate recoveries are reported out with each sample.
3. One sample, 08060, was spiked with Aroclor-1260 at a concentration of 3.0 ug/L as a matrix spike. The recovery is listed below.

PCB	Recovery (%)
Aroclor 1260	82

**SAMPLES ANALYZED:** 08060, 08060MS, 08426, 08427, 08060, BLANK

US ENVIRONMENTAL PROTECTION AGENCY  
60 Westview Street  
Lexington, MA 02173

Chemist who reviewed data: Peter Philbrook

Holding times meet (Y/N): No  
Extraction (Water - 7 days, Soils - 14 days)  
Analytical (40 days after extraction)

Method modifications: None

Limitations of data: None

Laboratory blank problems: None

Instrument performance problems: None

Surrogate and spike recovery problems: None

Additional comments: None

FACILITY SAMPLED: JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08426

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

AMOUNT EXTRACTED: 0.1 L

Matrix:

Water

Sample pH:

Final Volume:

5 mL

Dilution:

None

Report Factor:

1

SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	RL (ug/L)	Qualifier or Comment
12674-11-2	34671	Aroclor-1016	ND	5.0	
11104-28-2	39488	Aroclor-1221	ND	5.0	
11141-16-5	39492	Aroclor-1232	ND	5.0	
53469-21-9	39496	Aroclor-1242	ND	5.0	
12672-29-6	39500	Aroclor-1248	ND	5.0	
11097-69-1	39504	Aroclor-1254	ND	5.0	
11096-82-5	39508	Aroclor-1260	ND	5.0	
11100-14-4	81650	Aroclor-1262	ND	5.0	
37324-23-5	81650	Aroclor-1268	ND	5.0	

Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

Decachlorobiphenyl

88

2,4,5,6-Tetrachloro-m-xylene

80

Notes:

RL = Reporting limit

(6E+00 = 6, 1E+01 = 10, 4E-01 = 0.4)

ND = None detected

- = Approximate

< = Less than

> = Greater than

NA = Not applicable due to high sample  
dilutions or sample interferences

E = Estimated value exceeds the calibration range

L = Estimated value is below the calibration range

B = Analyte is associated with the lab blank or trip blank  
contamination. Values are qualified when the observed  
concentration of the contaminant in the sample extract  
is less than ten times the concentration in the blank.

P = The confirmation value exceeded 35% difference and is  
less than 100%. The lower value is reported.

D = Detected but too low to quantitate.

C = The identification has been confirmed by GC/MS.

FACILITY SAMPLED: JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08427

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

AMOUNT EXTRACTED: 0.1 L

Matrix:

Water

Sample pH:

Final Volume: 5 mL

Dilution: 2x

Report Factor: 2

SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	RL (ug/L)	Qualifier or Comment
12674-11-2	34671	Aroclor-1016	ND	10	
11104-28-2	39488	Aroclor-1221	ND	10	
11141-16-5	39492	Aroclor-1232	ND	10	
<b>53469-21-9</b>	<b>39496</b>	<b>Aroclor-1242</b>	<b>99</b>	<b>10</b>	
12672-29-6	39500	Aroclor-1248	ND	10	
11097-69-1	39504	Aroclor-1254	ND	10	
11096-82-5	39508	Aroclor-1260	ND	10	
11100-14-4	81650	Aroclor-1262	ND	10	
37324-23-5	81650	Aroclor-1268	ND	10	

Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

Decachlorobiphenyl  
2,4,5,6-Tetrachloro-m-xylene

49  
78

FACILITY SAMPLED: JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08060

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

AMOUNT EXTRACTED: 0.1 L

Matrix:

Water

Sample pH:

Final Volume:

5 mL

Dilution:

None

Report Factor:

1

SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	RL (ug/L)	Qualifier or Comment
12674-11-2	34671	Aroclor-1016	ND	5.0	
11104-28-2	39488	Aroclor-1221	ND	5.0	
11141-16-5	39492	Aroclor-1232	ND	5.0	
53469-21-9	39496	Aroclor-1242	ND	5.0	
12672-29-6	39500	Aroclor-1248	ND	5.0	
11097-69-1	39504	Aroclor-1254	ND	5.0	
11096-82-5	39508	Aroclor-1260	ND	5.0	
11100-14-4	81650	Aroclor-1262	ND	5.0	
37324-23-5	81650	Aroclor-1268	ND	5.0	

Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

Decachlorobiphenyl	70
2,4,5,6-Tetrachloro-m-xylene	55

FACILITY SAMPLED: JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: BLANK  
DATE OF COLLECTION: Not Applicable  
DATE OF EXTRACTION: 11/10/97  
DATE OF ANALYSIS: 11/17/97  
AMOUNT EXTRACTED: 0.1 L

Matrix: Water  
Sample pH:  
Final Volume: 5 mL  
Dilution: None  
Report Factor: 1

SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	RL (ug/L)	Qualifier or Comment
12674-11-2	34671	Aroclor-1016	ND	5.0	
11104-28-2	39488	Aroclor-1221	ND	5.0	
11141-16-5	39492	Aroclor-1232	ND	5.0	
53469-21-9	39496	Aroclor-1242	ND	5.0	
12672-29-6	39500	Aroclor-1248	ND	5.0	
11097-69-1	39504	Aroclor-1254	ND	5.0	
11096-82-5	39508	Aroclor-1260	ND	5.0	
11100-14-4	81650	Aroclor-1262	ND	5.0	
37324-23-5	81650	Aroclor-1268	ND	5.0	

Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

Decachlorobiphenyl	90
2,4,5,6-Tetrachloro-m-xylene	79



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 1  
ENVIRONMENTAL SERVICES DIVISION  
60 WESTVIEW STREET  
LEXINGTON, MASSACHUSETTS 02173-3185

*Mary Ellen Stanton*

DATE: November 28, 1997

SUBJ: Analysis of PCBs in Soils - JARD, INC.

FROM: Peter Philbrook, Investigations and Analysis, Chemistry Section

THRU: Dr. William J. Andrade, Advanced Analytical Chemistry Specialist

TO: Mary Ellen Stanton

PROJECT NUMBER: 98046

ANALYTICAL PROCEDURE:

All samples were received and logged in by the laboratory according to the SOP for Sample Log-In (EIA-ADMLOGN1.SOP, 7/97).

EPA Region 1 Procedure: Polychlorinated Biphenyls in Soil Samples, Mid Level Method, PCBSOML5.SOP. The modules used for this procedure were: XL 2020 Heat Systems Sonicator, SONICAT2.MOD, Chlorinated Pesticides and PCB Screening, 8500EC1.MOD, 5880 Gas Chromatographs, 5880EC2.MOD.

Results are reported out in dry weight.

The analytical support for this report was performed by AARP contractors.

Date Samples Received by the Laboratory: 10/30/97

Date Analysis Started: 11/10/97

CC:

File: J:\CHEMSTRY\REPORTS\PCB-PEST\98046SO.PCB

US ENVIRONMENTAL PROTECTION AGENCY  
60 Westview Street  
Lexington, MA 02173

QUALITY CONTROL:

1. One method blank was included in the analysis.
2. Each sample was spiked with the surrogate compounds, tetrachloroxylene and decachlorobiphenyl, at approximately 0.2 mg/Kg. The results for the surrogate recoveries are reported out with each sample.
3. One sample, 08435, was spiked as a matrix spike with Aroclor-1260 at approximately 1.0 mg/Kg. The recovery is listed below.

PCB	Recovery (%)	QC Range (%)
Aroclor 1260	100	46 - 153

OTHER COMPOUNDS QUANTITATED:

PCB	Conc. mg/Kg
Aroclor 1242	57

4. One sample, 08445, was analyzed in duplicate. The results are listed below.

PCB	08445	08445 DUP	RPD
Aroclor 1242	ND	ND	0

SAMPLES ANALYZED: 08428, 08429, 08430, 08431, 08432, 08433, 08434, 08435, 08435MS, 08436, 08437, 08438, 08439, 08440, 08441, 08442, 08443, 08444, 08445, 08445 DUP

US ENVIRONMENTAL PROTECTION AGENCY  
60 Westview Street  
Lexington, MA 02173

Chemist who reviewed data: Peter Philbrook

Holding time meet (Y/N): Yes  
Extraction (Water - 7 days, Soil - 14 days)  
Analytical (40 days after extraction)

Method modifications: None

Limitations of data: None

Laboratory blank problems: None

Instrument performance problems: None

Surrogate and spike recovery problems: None

Additional comments:

The gas chromatographic trace of the samples most closely matched that of Aroclor 1242 but the samples had a severely "weathered" appearance. This is indicative of degradation of the Aroclor in the sample environment.

There was not enough sample supplied to the lab for a dry weight determination on sample 08428. The results for sample 08428 are reported out on a wet weight basis.

FACILITY SAMPLED:

JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08428

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

DRY WEIGHT EXTRACTED: \*\*\*

WET WEIGHT EXTRACTED: 3.21 g

Matrix:	Soil
Final Volume:	5 mL
Percent Moisture:	***
Extract Dilution	None
Report Factor:	0.9

## SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	0.15	
11104-28-2	Aroclor-1221	ND	0.15	
11141-16-5	Aroclor-1232	ND	0.15	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>0.34</b>	<b>0.15</b>	<b>***</b>
12672-29-6	Aroclor-1248	ND	0.15	
11097-69-1	Aroclor-1254	ND	0.15	
11096-82-5	Aroclor-1260	ND	0.15	
11100-14-4	Aroclor-1262	ND	0.15	
37324-23-5	Aroclor-1268	ND	0.15	

\*\*\*=results based on wet weight (see page 3 "additional comments")

Sample Recovery for  
Surrogate Compound:Observed  
Recoveries (%)

Decachlorobiphenyl	78
2,4,5,6-Tetrachloro-m-xylene	61

## Notes:

RL = Reporting level

ND = None detected

- = Approximate

&lt; = Less than

&gt; = Greater than

NA = Not applicable due to high sample  
dilutions or sample interferences

E = Estimated value exceeds the calibration range

L = Estimated value is below the calibration range

B = Analyte is associated with the lab blank or trip blank  
contamination. Values are qualified when the observed  
concentration of the contaminant in the sample extract  
is less than ten times the concentration in the blank.P = The confirmation value exceeded 35% difference and is  
less than 100%. The lower value is reported.

D = Detected but too low to quantitate.

C = The identification has been confirmed by GC/MS.

FACILITY SAMPLED:

JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08429

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

DRY WEIGHT EXTRACTED: 2.84 g

WET WEIGHT EXTRACTED: 4.49 g

Matrix: Soil  
Final Volume: 5 mL  
Percent Moisture 27  
Dilution Factor: 25x  
Report Factor: 26

## SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	4.4	
11104-28-2	Aroclor-1221	ND	4.4	
11141-16-5	Aroclor-1232	ND	4.4	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>42</b>	<b>4.4</b>	
12672-29-6	Aroclor-1248	ND	4.4	
11097-69-1	Aroclor-1254	ND	4.4	
11096-82-5	Aroclor-1260	ND	4.4	
11100-14-4	Aroclor-1262	ND	4.4	
37324-23-5	Aroclor-1268	ND	4.4	

Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

Decachlorobiphenyl  
2,4,5,6-Tetrachloro-m-xylene

NA  
NA

FACILITY SAMPLED:

JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08430

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

DRY WEIGHT EXTRACTED: 15.89 g

WET WEIGHT EXTRACTED: 17.22 g

Matrix: Concrete

Final Volume: 5 mL

Percent Moisture 8

Dilution Factor: 5x

Report Factor: 0.9

## SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	0.15	
11104-28-2	Aroclor-1221	ND	0.15	
11141-16-5	Aroclor-1232	ND	0.15	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>1.0</b>	<b>0.15</b>	
12672-29-6	Aroclor-1248	ND	0.15	
11097-69-1	Aroclor-1254	ND	0.15	
11096-82-5	Aroclor-1260	ND	0.15	
11100-14-4	Aroclor-1262	ND	0.15	
37324-23-5	Aroclor-1268	ND	0.15	

Sample Recovery for  
Surrogate Compound:Observed  
Recoveries (%)

Decachlorobiphenyl

82

2,4,5,6-Tetrachloro-m-xylene

77

FACILITY SAMPLED:

JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

Polychlorinated Biphenyls

SAMPLE NO.: 08431

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

DRY WEIGHT EXTRACTED: 3.50 g

WET WEIGHT EXTRACTED: 4.00 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture 12

Dilution Factor: None

Report Factor: 0.8

## SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	0.14	
11104-28-2	Aroclor-1221	ND	0.14	
11141-16-5	Aroclor-1232	ND	0.14	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>0.5</b>	<b>0.14</b>	<b>P</b>
12672-29-6	Aroclor-1248	ND	0.14	
11097-69-1	Aroclor-1254	ND	0.14	
11096-82-5	Aroclor-1260	ND	0.14	
11100-14-4	Aroclor-1262	ND	0.14	
37324-23-5	Aroclor-1268	ND	0.14	

Sample Recovery for  
Surrogate Compound:Observed  
Recoveries (%)

Decachlorobiphenyl

82

2,4,5,6-Tetrachloro-m-xylene

74

FACILITY SAMPLED:

JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08432

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

DRY WEIGHT EXTRACTED: 3.29 g

WET WEIGHT EXTRACTED: 3.66 g

Matrix:

Soil

Final Volume:

5 mL

Percent Moisture

10

Dilution Factor:

500x

Report Factor:

450

## SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	77	
11104-28-2	Aroclor-1221	ND	77	
11141-16-5	Aroclor-1232	ND	77	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>1000</b>	<b>77</b>	<b>P</b>
12672-29-6	Aroclor-1248	ND	77	
11097-69-1	Aroclor-1254	ND	77	
11096-82-5	Aroclor-1260	ND	77	
11100-14-4	Aroclor-1262	ND	77	
37324-23-5	Aroclor-1268	ND	77	

Sample Recovery for  
Surrogate Compound:Observed  
Recoveries (%)

Decachlorobiphenyl

NA

2,4,5,6-Tetrachloro-m-xylene

NA

FACILITY SAMPLED:

JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08433

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/19/97

DRY WEIGHT EXTRACTED: 3.24 g

WET WEIGHT EXTRACTED: 3.71 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture 13

Dilution Factor: 5x

Report Factor: 4.5

## SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	0.77	
11104-28-2	Aroclor-1221	ND	0.77	
11141-16-5	Aroclor-1232	ND	0.77	
53469-21-9	Aroclor-1242	11	0.77	P
12672-29-6	Aroclor-1248	ND	0.77	
11097-69-1	Aroclor-1254	ND	0.77	
11096-82-5	Aroclor-1260	ND	0.77	
11100-14-4	Aroclor-1262	ND	0.77	
37324-23-5	Aroclor-1268	ND	0.77	

Sample Recovery for  
Surrogate Compound:Observed  
Recoveries (%)

Decachlorobiphenyl	93
2,4,5,6-Tetrachloro-m-xylene	83

FACILITY SAMPLED:

JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08434

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

DRY WEIGHT EXTRACTED: 3.34 g

WET WEIGHT EXTRACTED: 3.59 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture 7

Dilution Factor: 5x

Report Factor: 4.4

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	0.75	
11104-28-2	Aroclor-1221	ND	0.75	
11141-16-5	Aroclor-1232	ND	0.75	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>11</b>	<b>0.75</b>	<b>P.</b>
12672-29-6	Aroclor-1248	ND	0.75	
11097-69-1	Aroclor-1254	ND	0.75	
11096-82-5	Aroclor-1260	ND	0.75	
11100-14-4	Aroclor-1262	ND	0.75	
37324-23-5	Aroclor-1268	ND	0.75	

Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

Decachlorobiphenyl

91

2,4,5,6-Tetrachloro-m-xylene

77

FACILITY SAMPLED:

JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08435

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

DRY WEIGHT EXTRACTED: 3.42 g

WET WEIGHT EXTRACTED: 3.89 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture 12

Dilution Factor: 50x

Report Factor: 43

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	7.3	
11104-28-2	Aroclor-1221	ND	7.3	
11141-16-5	Aroclor-1232	ND	7.3	
53469-21-9	Aroclor-1242	67	7.3	P
12672-29-6	Aroclor-1248	ND	7.3	
11097-69-1	Aroclor-1254	ND	7.3	
11096-82-5	Aroclor-1260	ND	7.3	
11100-14-4	Aroclor-1262	ND	7.3	
37324-23-5	Aroclor-1268	ND	7.3	

Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

Decachlorobiphenyl

91

2,4,5,6-Tetrachloro-m-xylene

82

FACILITY SAMPLED: JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08436

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/19/97

DRY WEIGHT EXTRACTED: 3.33 g

WET WEIGHT EXTRACTED: 3.66 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture 9

Dilution Factor: 20x

Report Factor: 18

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	3.1	
11104-28-2	Aroclor-1221	ND	3.1	
11141-16-5	Aroclor-1232	ND	3.1	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>41</b>	<b>3.1</b>	
12672-29-6	Aroclor-1248	ND	3.1	
11097-69-1	Aroclor-1254	ND	3.1	
11096-82-5	Aroclor-1260	ND	3.1	
11100-14-4	Aroclor-1262	ND	3.1	
37324-23-5	Aroclor-1268	ND	3.1	

Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

Decachlorobiphenyl

NA

2,4,5,6-Tetrachloro-m-xylene

NA

FACILITY SAMPLED:

JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08437

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

DRY WEIGHT EXTRACTED: 3.13 g

WET WEIGHT EXTRACTED: 3.81 g

Matrix:

Soil

Final Volume:

5 mL

Percent Moisture

18

Dilution Factor:

None

Report Factor:

0.9

## SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	0.15	
11104-28-2	Aroclor-1221	ND	0.15	
11141-16-5	Aroclor-1232	ND	0.15	
53469-21-9	Aroclor-1242	1.1	0.15	P
12672-29-6	Aroclor-1248	ND	0.15	
11097-69-1	Aroclor-1254	ND	0.15	
11096-82-5	Aroclor-1260	ND	0.15	
11100-14-4	Aroclor-1262	ND	0.15	
37324-23-5	Aroclor-1268	ND	0.15	

Sample Recovery for  
Surrogate Compound:Observed  
Recoveries (%)

Decachlorobiphenyl	86
2,4,5,6-Tetrachloro-m-xylene	75

FACILITY SAMPLED:

JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08438

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/19/97

DRY WEIGHT EXTRACTED: 3.24 g

WET WEIGHT EXTRACTED: 3.71 g

Matrix:	Soil
Final Volume:	5 mL
Percent Moisture	13
Dilution Factor:	2x
Report Factor:	1.8

## SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	0.31	
11104-28-2	Aroclor-1221	ND	0.31	
11141-16-5	Aroclor-1232	ND	0.31	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>5.9</b>	<b>0.31</b>	
12672-29-6	Aroclor-1248	ND	0.31	
11097-69-1	Aroclor-1254	ND	0.31	
11096-82-5	Aroclor-1260	ND	0.31	
11100-14-4	Aroclor-1262	ND	0.31	
37324-23-5	Aroclor-1268	ND	0.31	

Sample Recovery for  
Surrogate Compound:Observed  
Recoveries (%)

Decachlorobiphenyl	87
2,4,5,6-Tetrachloro-m-xylene	71

FACILITY SAMPLED:

JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08439

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/19/97

DRY WEIGHT EXTRACTED: 2.28 g

WET WEIGHT EXTRACTED: 3.71 g

Matrix:	Soil
Final Volume:	5 mL
Percent Moisture	38
Dilution Factor:	10x
Report Factor:	13

## SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	2.2	
11104-28-2	Aroclor-1221	ND	2.2	
11141-16-5	Aroclor-1232	ND	2.2	
53469-21-9	Aroclor-1242	26	2.2	P
12672-29-6	Aroclor-1248	ND	2.2	
11097-69-1	Aroclor-1254	ND	2.2	
11096-82-5	Aroclor-1260	ND	2.2	
11100-14-4	Aroclor-1262	ND	2.2	
37324-23-5	Aroclor-1268	ND	2.2	

Sample Recovery for  
Surrogate Compound:Observed  
Recoveries (%)

Decachlorobiphenyl	82
2,4,5,6-Tetrachloro-m-xylene	88

FACILITY SAMPLED:

JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08440

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/19/97

DRY WEIGHT EXTRACTED: 3.18 g

WET WEIGHT EXTRACTED: 3.54 g

Matrix:	Soil
Final Volume:	5 mL
Percent Moisture	10
Dilution Factor:	20x
Report Factor:	17

## SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	2.9	
11104-28-2	Aroclor-1221	ND	2.9	
11141-16-5	Aroclor-1232	ND	2.9	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>38</b>	<b>2.9</b>	<b>P</b>
12672-29-6	Aroclor-1248	ND	2.9	
11097-69-1	Aroclor-1254	ND	2.9	
11096-82-5	Aroclor-1260	ND	2.9	
11100-14-4	Aroclor-1262	ND	2.9	
37324-23-5	Aroclor-1268	ND	2.9	

Sample Recovery for  
Surrogate Compound:Observed  
Recoveries (%)Decachlorobiphenyl  
2,4,5,6-Tetrachloro-m-xyleneNA  
NA

FACILITY SAMPLED:

JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08441

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

DRY WEIGHT EXTRACTED: 3.07 g

WET WEIGHT EXTRACTED: 3.41 g

Matrix: Soil  
Final Volume: 5 mL  
Percent Moisture: 10  
Dilution Factor: 50x  
Report Factor: 48

## SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	8.2	
11104-28-2	Aroclor-1221	ND	8.2	
11141-16-5	Aroclor-1232	ND	8.2	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>110</b>	<b>8.2</b>	<b>P</b>
12672-29-6	Aroclor-1248	ND	8.2	
11097-69-1	Aroclor-1254	ND	8.2	
11096-82-5	Aroclor-1260	ND	8.2	
11100-14-4	Aroclor-1262	ND	8.2	
37324-23-5	Aroclor-1268	ND	8.2	

Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

Decachlorobiphenyl  
2,4,5,6-Tetrachloro-m-xylene

NA  
NA

FACILITY SAMPLED:

JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08442

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

DRY WEIGHT EXTRACTED: 3.45 g

WET WEIGHT EXTRACTED: 3.71 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture 7

Dilution Factor: None

Report Factor: 0.9

## SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	0.15	
11104-28-2	Aroclor-1221	ND	0.15	
11141-16-5	Aroclor-1232	ND	0.15	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>0.24</b>	<b>0.15</b>	<b>P</b>
12672-29-6	Aroclor-1248	ND	0.15	
11097-69-1	Aroclor-1254	ND	0.15	
11096-82-5	Aroclor-1260	ND	0.15	
11100-14-4	Aroclor-1262	ND	0.15	
37324-23-5	Aroclor-1268	ND	0.15	

Sample Recovery for  
Surrogate Compound:Observed  
Recoveries (%)

Decachlorobiphenyl

90

2,4,5,6-Tetrachloro-m-xylene

73

FACILITY SAMPLED:

JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08443

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

DRY WEIGHT EXTRACTED: 3.33 g

WET WEIGHT EXTRACTED: 3.70 g

Matrix:	Soil
Final Volume:	5 mL
Percent Moisture	10
Dilution Factor:	20x
Report Factor:	18

## SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	3.1	
11104-28-2	Aroclor-1221	ND	3.1	
11141-16-5	Aroclor-1232	ND	3.1	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>30</b>	<b>3.1</b>	<b>P</b>
12672-29-6	Aroclor-1248	ND	3.1	
11097-69-1	Aroclor-1254	ND	3.1	
11096-82-5	Aroclor-1260	ND	3.1	
11100-14-4	Aroclor-1262	ND	3.1	
37324-23-5	Aroclor-1268	ND	3.1	

Sample Recovery for  
Surrogate Compound:Observed  
Recoveries (%)

Decachlorobiphenyl	NA
2,4,5,6-Tetrachloro-m-xylene	NA

FACILITY SAMPLED:

JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08444

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

DRY WEIGHT EXTRACTED: 3.20 g

WET WEIGHT EXTRACTED: 3.45 g

Matrix:	Soil
Final Volume:	5 mL
Percent Moisture	7
Dilution Factor:	None
Report Factor:	0.9

## SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	0.15	
11104-28-2	Aroclor-1221	ND	0.15	
11141-16-5	Aroclor-1232	ND	0.15	
53469-21-9	Aroclor-1242	ND	0.15	
12672-29-6	Aroclor-1248	ND	0.15	
11097-69-1	Aroclor-1254	ND	0.15	
11096-82-5	Aroclor-1260	ND	0.15	
11100-14-4	Aroclor-1262	ND	0.15	
37324-23-5	Aroclor-1268	ND	0.15	

Sample Recovery for  
Surrogate Compound:Observed  
Recoveries (%)

Decachlorobiphenyl	84
2,4,5,6-Tetrachloro-m-xylene	72

FACILITY SAMPLED:

JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 08445

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/18/97

DRY WEIGHT EXTRACTED: 3.03 g

WET WEIGHT EXTRACTED: 3.26 g

Matrix: Soil

Final Volume: 5 mL

Percent Moisture 7

Dilution Factor: None

Report Factor: 1.0

## SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	0.17	
11104-28-2	Aroclor-1221	ND	0.17	
11141-16-5	Aroclor-1232	ND	0.17	
53469-21-9	Aroclor-1242	ND	0.17	
12672-29-6	Aroclor-1248	ND	0.17	
11097-69-1	Aroclor-1254	ND	0.17	
11096-82-5	Aroclor-1260	ND	0.17	
11100-14-4	Aroclor-1262	ND	0.17	
37324-23-5	Aroclor-1268	ND	0.17	

Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

Decachlorobiphenyl

90

2,4,5,6-Tetrachloro-m-xylene

83

FACILITY SAMPLED:

JARD, INC.

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: BLANK

DATE OF COLLECTION: N/A

DATE OF EXTRACTION: 11/10/97

DATE OF ANALYSIS: 11/17/97

DRY WEIGHT EXTRACTED: 3.00 g

WET WEIGHT EXTRACTED: 3.00 g

Matrix:

Soil

Final Volume:

5 mL

Percent Moisture

0

Dilution Factor:

None

Report Factor:

1.0

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (mg/Kg)	RL (mg/Kg)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	0.17	
11104-28-2	Aroclor-1221	ND	0.17	
11141-16-5	Aroclor-1232	ND	0.17	
53469-21-9	Aroclor-1242	ND	0.17	
12672-29-6	Aroclor-1248	ND	0.17	
11097-69-1	Aroclor-1254	ND	0.17	
11096-82-5	Aroclor-1260	ND	0.17	
11100-14-4	Aroclor-1262	ND	0.17	
37324-23-5	Aroclor-1268	ND	0.17	

Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

Decachlorobiphenyl  
2,4,5,6-Tetrachloro-m-xylene

81  
72



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 1  
ENVIRONMENTAL SERVICES DIVISION  
60 WESTVIEW STREET  
LEXINGTON, MASSACHUSETTS 02173-3185

*copy 5/11/04*  
*Stanton*

DATE: November 26, 1997  
SUBJ: Analysis of Polychlorinated Biphenyls (PCBs) in Wipe Samples - JARD, INC.  
FROM: Paul Carroll, Chemistry Section *Paul*  
THRU: Dr. William J. Andrade, Advanced Analytical Chemistry Specialist  
TO: Mary Ellen Stanton *WJA 11/26/97*

PROJECT NUMBER: 98046

ANALYTICAL PROCEDURE:

All samples were received and logged in by the laboratory according to the SOP for Sample Log-In (EIA-ADMLOGN1.SOP, 7/97).

The wipe samples were extracted with 10 ml of hexane on a wrist shaker for 60 min. The extracts were screened on a 15 m, DB-5 capillary column using a Perkin Elmer 8500 gas chromatograph. Qualitative and quantitative analyses were done on a dual capillary system, Hewlett Packard 5890 gas chromatograph with two 30m, DB-1701 and DB-5, 0.25mm ID and a 0.25 micron film thickness. Results are reported out in total amount of PCBs observed per wipe.

Date(s) Samples Received by the Laboratory: 10/30/97

Date Analysis Started: 11/04/97

CC:

File: J:\CHEMSTRY\REPORTS\PCB-PEST\98046WI.PCB

**US ENVIRONMENTAL PROTECTION AGENCY**  
**60 Westview Street**  
**Lexington, MA 02173**

**QUALITY CONTROL:**

1. One method blank was included in the analysis.
2. Each sample was spiked with the surrogate compounds, tetrachloroxylene (TCX) and decachlorobiphenyl (DCB), at 10 ug/wipe. The results for the surrogate recoveries are reported out with each sample.
3. One laboratory fortified blank (LFB) was spiked with Aroclor-1260 at approximately 10 ug. The recovery is listed below.

PCB	Recovery (%)
Aroclor-1260	88

**SAMPLES ANALYZED:** 05710, 08061, BLANK, LFB

**US ENVIRONMENTAL PROTECTION AGENCY  
60 Westview Street  
Lexington, MA 02173**

**Chemist who reviewed data: Peter Philbrook**

**Holding times meet (Y/N): Yes  
Extraction (Water - 7 days, Soils - 14 days)  
Analytical (40 days after extraction)**

**Method modifications: Samples were extracted using a separatory funnel  
due to the large sample size.**

**Limitations of data: None**

**Laboratory blank problems: None**

**Instrument performance problems: None**

**Surrogate and spike recovery problems: None**

**Additional comments: None**

FACILITY SAMPLED:

JARD, INC.

ENVIRONMENTAL PROTECTION AGENCY

REGION 1 LABORATORY

Polychlorinated Biphenyls

SAMPLE NO.: 08061

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/04/97

DATE OF ANALYSIS: 11/08/97

AMOUNT EXTRACTED: 1 wipe

Matrix:

Wipe

Final Volume:

10 mL

Extract Dilution:

50x

Report Factor:

50

## SAMPLE RESULTS:

CAS NO.	Compound	Amount (ug/Wipe)	RL (ug/Wipe)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	5E+01	
11104-28-2	Aroclor-1221	ND	5E+01	
11141-16-5	Aroclor-1232	ND	5E+01	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>490</b>	<b>5E+01</b>	
12672-29-6	Aroclor-1248	ND	5E+01	
11097-69-1	Aroclor-1254	ND	5E+01	
11096-82-5	Aroclor-1260	ND	5E+01	
11100-14-4	Aroclor-1262	ND	5E+01	
37324-23-5	Aroclor-1268	ND	5E+01	

Sample Recovery for  
Surrogate Compound:Observed  
Recoveries (%)

Decachlorobiphenyl

NA

2,4,5,6-Tetrachloro-m-xylene

NA

## Notes:

RL = Reporting limit

(6E+00 = 6, 1E+01 = 10, 4E-01 = 0.4)

ND = None detected

~ = Approximate

&lt; = Less than

&gt; = Greater than

NA = Not applicable due to high sample  
dilutions or sample interferences

E = Estimated value exceeds the calibration range

L = Estimated value is below the calibration range

B = Analyte is associated with the lab blank or trip blank  
contamination. Values are qualified when the observed  
concentration of the contaminant in the sample extract  
is less than ten times the concentration in the blank.P = The confirmation value exceeded 35% difference and is  
less than 100%. The lower value is reported.

D = Detected but too low to quantitate.

C = The identification has been confirmed by GC/MS.

FACILITY SAMPLED:

JARD, INC.

ENVIRONMENTAL PROTECTION AGENCY  
REGION 1 LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: 05710

DATE OF COLLECTION: 10/29/97

DATE OF EXTRACTION: 11/04/97

DATE OF ANALYSIS: 11/08/97

AMOUNT EXTRACTED: 1 wipe

Matrix:

Final Volume:

Extract Dilution:

Dilution Factor:

Wipe

10 mL

None

1

SAMPLE RESULTS:

CAS NO.	Compound	Amount (ug/Wipe)	RL (ug/Wipe)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	1E+00	
11104-28-2	Aroclor-1221	ND	1E+00	
11141-16-5	Aroclor-1232	ND	1E+00	
53469-21-9	Aroclor-1242	6.5	1E+00	
12672-29-6	Aroclor-1248	ND	1E+00	
11097-69-1	Aroclor-1254	ND	1E+00	
11096-82-5	Aroclor-1260	ND	1E+00	
11100-14-4	Aroclor-1262	ND	1E+00	
37324-23-5	Aroclor-1268	ND	1E+00	

Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

Decachlorobiphenyl	90
2,4,5,6-Tetrachloro-m-xylene	79

FACILITY SAMPLED:

JARD, INC.

U.S. ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Polychlorinated Biphenyls

SAMPLE NO.: BLANK

DATE OF COLLECTION: Not applicable

DATE OF EXTRACTION: 11/04/97

DATE OF ANALYSIS: 11/07/97

AMOUNT EXTRACTED: 1 wipe

Matrix:

Final Volume:

Extract Dilution:

Dilution Factor:

Wipe

10 mL

None

1

SAMPLE RESULTS:

CAS NO.	Compound	Amount (ug/Wipe)	RL (ug/Wipe)	Qualifier or Comment
12674-11-2	Aroclor-1016	ND	1E+00	
11104-28-2	Aroclor-1221	ND	1E+00	
11141-16-5	Aroclor-1232	ND	1E+00	
53469-21-9	Aroclor-1242	ND	1E+00	
12672-29-6	Aroclor-1248	ND	1E+00	
11097-69-1	Aroclor-1254	ND	1E+00	
11096-82-5	Aroclor-1260	ND	1E+00	
11100-14-4	Aroclor-1262	ND	1E+00	
37324-23-5	Aroclor-1268	ND	1E+00	

Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

Decachlorobiphenyl	84
2,4,5,6-Tetrachloro-m-xylene	79



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 1  
ENVIRONMENTAL SERVICES DIVISION  
60 WESTVIEW STREET  
LEXINGTON, MASSACHUSETTS 02173-3185

*Mary Ellen  
Stanton*

DATE: October 15, 1997

SUBJ: Analysis of Chlorinated Pesticides and Polychlorinated Biphenyls (PCBs) in Soil Samples - JARD INC

FROM: Peter<sup>PEP</sup> Philbrook, Chemistry Section

THRU: Dr. William J. Andrade, <sup>WJA 10/22/97</sup> Advanced Analytical Chemistry Specialist

TO: Mary Ellen Stanton

PROJECT NUMBER: 97614

ANALYTICAL PROCEDURE:

All samples were received and logged in by the laboratory according to the SOP for Sample Log-In (EIA-ADMLOGN1.SOP, 7/97).

EPA Region 1 Procedure: Chlorinated Pesticides and Polychlorinated Biphenyls (PCBs) in Soil Samples - Medium Level Method, PESSOML3.SOP. The modules used for this procedure were: XL 2020 Heat Systems Sonicator, SONICAT2.MOD, Chlorinated Pesticides and PCB Screening, 8500EC1.MOD, 5890 Gas Chromatographs, 5890EC2.MOD. Results are reported out in dry weight.

Date Samples Received by the Laboratory: 09/18/97

Date Analysis Started: 09/25/97

cc:

File: J:\CHEMISTRY\REPORTS\PCB-PEST\97614SO.PES

US ENVIRONMENTAL PROTECTION AGENCY  
60 Westview Street  
Lexington, MA 02173

QUALITY CONTROL:

1. One method blank was included in the analysis.
2. Each sample was spiked with the surrogate compounds, tetrachloroethylene and decachlorobiphenyl, at approximately 0.8 mg/kg respectively. The results for the surrogate recoveries are reported out with each sample.
3. One sample, 06302, was spiked as a matrix spike with Aroclor-1260 at approximately 1.0 mg/Kg. The recovery is listed below.

PCB	Recovery (%)	QC Range (%)
Aroclor 1260	100	46-153

OTHER COMPOUNDS QUANTITATED:

PCB	06302 MS CONC. (ug/Kg)
Aroclor 1242	1,200

SAMPLES ANALYZED: BLANK, 06296, 06297, 06298, 06299, 06300,  
06301, 06302, 06302MS, 06303, 06304, 06305,  
06306, 06307, 06308

US ENVIRONMENTAL PROTECTION AGENCY  
60 Westview Street  
Lexington, MA 02173

Chemist who reviewed data: Paul Carroll

Holding times meet (Y/N): Yes  
Extraction (Water - 7 days, Soils - 14 days)  
Analytical (40 days after extraction)

Method modifications: None

Limitations of data: None

Laboratory blank problems: None

Instrument performance problems: None

Surrogate and spike recovery problems: Surrogate recoveries could not be determined on the following samples 06296, 06303, 06306, 06307, 06308 dilutions were required to quantitate target compounds. The TCX recovery for sample 06301 was low 25%, the DCB was in QC range at 96%.

Additional comments: The gas chromatographic trace of samples 06298, 06307, and 06308 matched that of Aroclor 1242. The chromatographic trace of the remaining samples most closely matched that of Aroclor 1242 but had a severely "weathered" appearance which is indicative of degradation of the Aroclor in the sample environment.

FACILITY SAMPLED:

JARD INC

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: BLANK

DATE OF COLLECTION: NOT APPLICABLE

DATE OF EXTRACTION: 09/25/97

DATE OF ANALYSIS: 10/08/97

DRY WEIGHT EXTRACTED 3.021

WET WEIGHT EXTRACTED 3.021

Matrix: Soil

Final Volume: 5mL

Percent Moisture: 0

Extract Dilution: NONE

Report Factor: 1.0

## SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/Kg)	RL (ug/Kg)	Qualifier or Comment
309-00-2	39330	Aldrin	ND	8E+00	
319-84-6	39337	alpha-BHC	ND	8E+00	
319-85-7	39338	beta-BHC	ND	8E+00	
319-86-8	34259	delta-BHC	ND	8E+00	
58-89-9	39340	gamma-BHC	ND	8E+00	
5103-71-9	---	alpha-Chlordane	ND	8E+00	
5103-74-2	---	gamma-Chlordane	ND	8E+00	
57-74-9	39350	Chlordane (technical)	ND	8E+02	
72-54-8	39310	4,4'-DDD	ND	8E+00	
72-55-9	39320	4,4'-DDE	ND	8E+00	
50-29-3	39300	4,4'-DDT	ND	8E+00	
60-57-1	39380	Dieldrin	ND	8E+00	
959-98-8	34361	Endosulfan I	ND	8E+00	
33212-65-9	34356	Endosulfan II	ND	8E+00	
1031-078	34351	Endosulfan sulfate	ND	8E+00	
72-20-8	39390	Endrin	ND	8E+00	
7421-93-4	34366	Endrin aldehyde	ND	8E+00	
53494-70-5	---	Endrin ketone	ND	8E+00	
76-44-8	39410	Heptachlor	ND	8E+00	
1024-57-3	39420	Heptachlor epoxide	ND	8E+00	
72-43-5	---	Methoxychlor	ND	8E+00	
8001-35-2	39400	Toxaphene	ND	8E+02	
12674-11-2	34671	Aroclor-1016	ND	2E+02	
11104-28-2	39488	Aroclor-1221	ND	2E+02	
11141-16-5	39492	Aroclor-1232	ND	2E+02	
53469-21-9	39496	Aroclor-1242	ND	2E+02	
12672-29-6	39500	Aroclor-1248	ND	2E+02	
11097-69-1	39504	Aroclor-1254	ND	2E+02	
11096-82-5	39508	Aroclor-1260	ND	2E+02	
11100-14-4	81649	Aroclor-1262	ND	2E+02	
37324-23-5	81650	Aroclor-1268	ND	2E+02	

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: BLANK  
ANALYTICAL RESULTS CONT.

Sample Recovery for Surrogate Compound:	Observed Recoveries (%)
Decachlorobiphenyl	108
2,4,5,6-Tetrachloro-m-xylene	88

Notes:

RL = Reporting limit  
(6E+00 = 6, 1E+01 = 10, 4E-01 = 0.4)  
ND = None detected  
~ = Approximate  
< = Less than  
> = Greater than  
NA = Not available due to dilution or interference  
E = Estimated value exceeds the calibration range  
L = Estimated value is below the calibration range  
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contaminant in the sample extract is less than ten times the concentration in the blank.  
P = The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.  
D = Detected but too low to quantitate.  
C = The identification has been confirmed by GC/MS.

FACILITY SAMPLED:

JARD INC

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06296

DATE OF COLLECTION: 09/17/97

DATE OF EXTRACTION: 09/25/97

DATE OF ANALYSIS: 10/08/97

DRY WEIGHT EXTRACTED 3.36

WET WEIGHT EXTRACTED 3.58

Matrix: Soil  
 Final Volume: 5mL  
 Percent Moisture: 6  
 Extract Dilution: 100X  
 Report Factor: 88

## SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/Kg)	RL (ug/Kg)	Qualifier or Comment
309-00-2	39330	Aldrin	ND	7E+02	
319-84-6	39337	alpha-BHC	ND	7E+02	
319-85-7	39338	beta-BHC	ND	7E+02	
319-86-8	34259	delta-BHC	ND	7E+02	
58-89-9	39340	gamma-BHC	ND	7E+02	
5103-71-9	---	alpha-Chlordane	ND	7E+02	
5103-74-2	---	gamma-Chlordane	ND	7E+02	
57-74-9	39350	Chlordane (technical)	ND	7E+04	
72-54-8	39310	4,4'-DDD	ND	7E+02	
72-55-9	39320	4,4'-DDE	ND	7E+02	
50-29-3	39300	4,4'-DDT	ND	7E+02	
60-57-1	39380	Dieldrin	ND	7E+02	
959-98-8	34361	Endosulfan I	ND	7E+02	
33212-65-9	34356	Endosulfan II	ND	7E+02	
1031-078	34351	Endosulfan sulfate	ND	7E+02	
72-20-8	39390	Endrin	ND	7E+02	
7421-93-4	34366	Endrin aldehyde	ND	7E+02	
53494-70-5	---	Endrin ketone	ND	7E+02	
76-44-8	39410	Heptachlor	ND	7E+02	
1024-57-3	39420	Heptachlor epoxide	ND	7E+02	
72-43-5	---	Methoxychlor	ND	7E+02	
8001-35-2	39400	Toxaphene	ND	7E+04	
12674-11-2	34671	Aroclor-1016	ND	2E+04	
11104-28-2	39488	Aroclor-1221	ND	2E+04	
11141-16-5	39492	Aroclor-1232	ND	2E+04	
<b>53469-21-9</b>	<b>39496</b>	<b>Aroclor-1242</b>	<b>120,000</b>	<b>2E+04</b>	
12672-29-6	39500	Aroclor-1248	ND	2E+04	
11097-69-1	39504	Aroclor-1254	ND	2E+04	
11096-82-5	39508	Aroclor-1260	ND	2E+04	
11100-14-4	81649	Aroclor-1262	ND	2E+04	
37324-23-5	81650	Aroclor-1268	ND	2E+04	

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06296  
ANALYTICAL RESULTS CONT.

Sample Recovery for Surrogate Compound:	Observed Recoveries (%)
Decachlorobiphenyl	NA
2,4,5,6-Tetrachloro-m-xylene	NA

FACILITY SAMPLED:

JARD INC

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06297

DATE OF COLLECTION: 09/17/97

DATE OF EXTRACTION: 09/25/97

DATE OF ANALYSIS: 10/08/97

DRY WEIGHT EXTRACTED 2.98

WET WEIGHT EXTRACTED 3.29

Matrix:

Soil

Final Volume:

5mL

Percent Moisture:

9

Extract Dilution:

10X

Report Factor:

9.9

## SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/Kg)	RL (ug/Kg)	Qualifier or Comment
309-00-2	39330	Aldrin	ND	8E+01	
319-84-6	39337	alpha-BHC	ND	8E+01	
319-85-7	39338	beta-BHC	ND	8E+01	
319-86-8	34259	delta-BHC	ND	8E+01	
58-89-9	39340	gamma-BHC	ND	8E+01	
5103-71-9	---	alpha-Chlordane	ND	8E+01	
5103-74-2	---	gamma-Chlordane	ND	8E+01	
57-74-9	39350	Chlordane (technical)	ND	8E+03	
72-54-8	39310	4,4'-DDD	ND	8E+01	
72-55-9	39320	4,4'-DDE	ND	8E+01	
50-29-3	39300	4,4'-DDT	ND	8E+01	
60-57-1	39380	Dieldrin	ND	8E+01	
959-98-8	34361	Endosulfan I	ND	8E+01	
33212-65-9	34356	Endosulfan II	ND	8E+01	
1031-078	34351	Endosulfan sulfate	ND	8E+01	
72-20-8	39390	Endrin	ND	8E+01	
7421-93-4	34366	Endrin aldehyde	ND	8E+01	
53494-70-5	---	Endrin ketone	ND	8E+01	
76-44-8	39410	Heptachlor	ND	8E+01	
1024-57-3	39420	Heptachlor epoxide	ND	8E+01	
72-43-5	---	Methoxychlor	ND	8E+01	
8001-35-2	39400	Toxaphene	ND	8E+03	
12674-11-2	34671	Aroclor-1016	ND	2E+03	
11104-28-2	39488	Aroclor-1221	ND	2E+03	
11141-16-5	39492	Aroclor-1232	ND	2E+03	
<b>53469-21-9</b>	<b>39496</b>	<b>Aroclor-1242</b>	<b>17,000</b>	<b>2E+03</b>	
12672-29-6	39500	Aroclor-1248	ND	2E+03	
11097-69-1	39504	Aroclor-1254	ND	2E+03	
11096-82-5	39508	Aroclor-1260	ND	2E+03	
11100-14-4	81649	Aroclor-1262	ND	2E+03	
37324-23-5	81650	Aroclor-1268	ND	2E+03	

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06297  
ANALYTICAL RESULTS CONT.

Sample Recovery for Surrogate Compound:	Observed Recoveries (%)
Decachlorobiphenyl	98
2,4,5,6-Tetrachloro-m-xylene	81

FACILITY SAMPLED:

JARD INC

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06298

DATE OF COLLECTION: 09/17/97

DATE OF EXTRACTION: 09/25/97

DATE OF ANALYSIS: 10/8/97

DRY WEIGHT EXTRACTED 3.46

WET WEIGHT EXTRACTED 3.76

Matrix:

Soil

Final Volume:

5mL

Percent Moisture:

8

Extract Dilution:

NONE

Report Factor:

0.8

## SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/Kg)	RL (ug/Kg)	Qualifier or Comment
309-00-2	39330	Aldrin	ND	6E+00	
319-84-6	39337	alpha-BHC	ND	6E+00	
319-85-7	39338	beta-BHC	ND	6E+00	
319-86-8	34259	delta-BHC	ND	6E+00	
58-89-9	39340	gamma-BHC	ND	6E+00	
5103-71-9	---	alpha-Chlordane	ND	6E+00	
5103-74-2	---	gamma-Chlordane	ND	6E+00	
57-74-9	39350	Chlordane (technical)	ND	6E+02	
72-54-8	39310	4,4'-DDD	ND	6E+00	
72-55-9	39320	4,4'-DDE	ND	6E+00	
50-29-3	39300	4,4'-DDT	ND	6E+00	
60-57-1	39380	Dieldrin	ND	6E+00	
959-98-8	34361	Endosulfan I	ND	6E+00	
33212-65-9	34356	Endosulfan II	ND	6E+00	
1031-078	34351	Endosulfan sulfate	ND	6E+00	
72-20-8	39390	Endrin	ND	6E+00	
7421-93-4	34366	Endrin aldehyde	ND	6E+00	
53494-70-5	---	Endrin ketone	ND	6E+00	
76-44-8	39410	Heptachlor	ND	6E+00	
1024-57-3	39420	Heptachlor epoxide	ND	6E+00	
72-43-5	---	Methoxychlor	ND	6E+00	
8001-35-2	39400	Toxaphene	ND	6E+02	
12674-11-2	34671	Aroclor-1016	ND	2E+02	
11104-28-2	39488	Aroclor-1221	ND	2E+02	
11141-16-5	39492	Aroclor-1232	ND	2E+02	
<b>53469-21-9</b>	<b>39496</b>	<b>Aroclor-1242</b>	<b>2,300</b>	<b>2E+02</b>	
12672-29-6	39500	Aroclor-1248	ND	2E+02	
11097-69-1	39504	Aroclor-1254	ND	2E+02	
11096-82-5	39508	Aroclor-1260	ND	2E+02	
11100-14-4	81649	Aroclor-1262	ND	2E+02	
37324-23-5	81650	Aroclor-1268	ND	2E+02	

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06298  
ANALYTICAL RESULTS CONT.

Sample Recovery for Surrogate Compound:	Observed Recoveries (%)
Decachlorobiphenyl	91
2,4,5,6-Tetrachloro-m-xylene	69

FACILITY SAMPLED:

JARD INC

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06299

DATE OF COLLECTION: 09/17/97

DATE OF EXTRACTION: 09/25/97

DATE OF ANALYSIS: 10/08/97

DRY WEIGHT EXTRACTED 3.00

WET WEIGHT EXTRACTED 3.40

Matrix: Soil  
 Final Volume: 5mL  
 Percent Moisture: 12  
 Extract Dilution: 10X  
 Report Factor: 9.8

## SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/Kg)	RL (ug/Kg)	Qualifier or Comment
309-00-2	39330	Aldrin	ND	8E+01	
319-84-6	39337	alpha-BHC	ND	8E+01	
319-85-7	39338	beta-BHC	ND	8E+01	
319-86-8	34259	delta-BHC	ND	8E+01	
58-89-9	39340	gamma-BHC	ND	8E+01	
5103-71-9	---	alpha-Chlordane	ND	8E+01	
5103-74-2	---	gamma-Chlordane	ND	8E+01	
57-74-9	39350	Chlordane (technical)	ND	8E+03	
72-54-8	39310	4,4'-DDD	ND	8E+01	
72-55-9	39320	4,4'-DDE	ND	8E+01	
50-29-3	39300	4,4'-DDT	ND	8E+01	
60-57-1	39380	Dieldrin	ND	8E+01	
959-98-8	34361	Endosulfan I	ND	8E+01	
33212-65-9	34356	Endosulfan II	ND	8E+01	
1031-078	34351	Endosulfan sulfate	ND	8E+01	
72-20-8	39390	Endrin	ND	8E+01	
7421-93-4	34366	Endrin aldehyde	ND	8E+01	
53494-70-5	---	Endrin ketone	ND	8E+01	
76-44-8	39410	Heptachlor	ND	8E+01	
1024-57-3	39420	Heptachlor epoxide	ND	8E+01	
72-43-5	---	Methoxychlor	ND	8E+01	
8001-35-2	39400	Toxaphene	ND	8E+03	
12674-11-2	34671	Aroclor-1016	ND	2E+03	
11104-28-2	39488	Aroclor-1221	ND	2E+03	
11141-16-5	39492	Aroclor-1232	ND	2E+03	
<b>53469-21-9</b>	<b>39496</b>	<b>Aroclor-1242</b>	<b>7,000</b>	<b>2E+03</b>	
12672-29-6	39500	Aroclor-1248	ND	2E+03	
11097-69-1	39504	Aroclor-1254	ND	2E+03	
11096-82-5	39508	Aroclor-1260	ND	2E+03	
11100-14-4	81649	Aroclor-1262	ND	2E+03	
37324-23-5	81650	Aroclor-1268	ND	2E+03	

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06299  
ANALYTICAL RESULTS CONT.

Sample Recovery for Surrogate Compound:	Observed Recoveries (%)
Decachlorobiphenyl	94
2,4,5,6-Tetrachloro-m-xylene	78

FACILITY SAMPLED:

JARD INC

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06300

DATE OF COLLECTION: 09/17/97

DATE OF EXTRACTION: 09/25/97

DATE OF ANALYSIS: 10/8/97

DRY WEIGHT EXTRACTED 3.25

WET WEIGHT EXTRACTED 3.46

Matrix: Soil  
 Final Volume: 5mL  
 Percent Moisture: 6  
 Extract Dilution: 10X  
 Report Factor: 9

## SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/Kg)	RL (ug/Kg)	Qualifier or Comment
309-00-2	39330	Aldrin	ND	7E+01	
319-84-6	39337	alpha-BHC	ND	7E+01	
319-85-7	39338	beta-BHC	ND	7E+01	
319-86-8	34259	delta-BHC	ND	7E+01	
58-89-9	39340	gamma-BHC	ND	7E+01	
5103-71-9	---	alpha-Chlordane	ND	7E+01	
5103-74-2	---	gamma-Chlordane	ND	7E+01	
57-74-9	39350	Chlordane (technical)	ND	7E+03	
72-54-8	39310	4,4'-DDD	ND	7E+01	
72-55-9	39320	4,4'-DDE	ND	7E+01	
50-29-3	39300	4,4'-DDT	ND	7E+01	
60-57-1	39380	Dieldrin	ND	7E+01	
959-98-8	34361	Endosulfan I	ND	7E+01	
33212-65-9	34356	Endosulfan II	ND	7E+01	
1031-078	34351	Endosulfan sulfate	ND	7E+01	
72-20-8	39390	Endrin	ND	7E+01	
7421-93-4	34366	Endrin aldehyde	ND	7E+01	
53494-70-5	---	Endrin ketone	ND	7E+01	
76-44-8	39410	Heptachlor	ND	7E+01	
1024-57-3	39420	Heptachlor epoxide	ND	7E+01	
72-43-5	---	Methoxychlor	ND	7E+01	
8001-35-2	39400	Toxaphene	ND	7E+03	
12674-11-2	34671	Aroclor-1016	ND	2E+03	
11104-28-2	39488	Aroclor-1221	ND	2E+03	
11141-16-5	39492	Aroclor-1232	ND	2E+03	
<b>53469-21-9</b>	<b>39496</b>	<b>Aroclor-1242</b>	<b>11,000</b>	<b>2E+03</b>	
12672-29-6	39500	Aroclor-1248	ND	2E+03	
11097-69-1	39504	Aroclor-1254	ND	2E+03	
11096-82-5	39508	Aroclor-1260	ND	2E+03	
11100-14-4	81649	Aroclor-1262	ND	2E+03	
37324-23-5	81650	Aroclor-1268	ND	2E+03	

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06300  
ANALYTICAL RESULTS CONT.

Sample Recovery for Surrogate Compound:	Observed Recoveries (%)
Decachlorobiphenyl	94
2,4,5,6-Tetrachloro-m-xylene	84

FACILITY SAMPLED:

JARD INC

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06301

DATE OF COLLECTION: 09/17/97

DATE OF EXTRACTION: 09/25/97

DATE OF ANALYSIS: 10/08/97

DRY WEIGHT EXTRACTED 3.21

WET WEIGHT EXTRACTED 3.32

Matrix: Soil

Final Volume: 5mL

Percent Moisture: 3

Extract Dilution: 10X

Report Factor: 9

## SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/Kg)	RL (ug/Kg)	Qualifier or Comment
309-00-2	39330	Aldrin	ND	7E+01	
319-84-6	39337	alpha-BHC	ND	7E+01	
319-85-7	39338	beta-BHC	ND	7E+01	
319-86-8	34259	delta-BHC	ND	7E+01	
58-89-9	39340	gamma-BHC	ND	7E+01	
5103-71-9	---	alpha-Chlordane	ND	7E+01	
5103-74-2	---	gamma-Chlordane	ND	7E+01	
57-74-9	39350	Chlordane (technical)	ND	7E+03	
72-54-8	39310	4,4'-DDD	ND	7E+01	
72-55-9	39320	4,4'-DDE	ND	7E+01	
50-29-3	39300	4,4'-DDT	ND	7E+01	
60-57-1	39380	Dieldrin	ND	7E+01	
959-98-8	34361	Endosulfan I	ND	7E+01	
33212-65-9	34356	Endosulfan II	ND	7E+01	
1031-078	34351	Endosulfan sulfate	ND	7E+01	
72-20-8	39390	Endrin	ND	7E+01	
7421-93-4	34366	Endrin aldehyde	ND	7E+01	
53494-70-5	---	Endrin ketone	ND	7E+01	
76-44-8	39410	Heptachlor	ND	7E+01	
1024-57-3	39420	Heptachlor epoxide	ND	7E+01	
72-43-5	---	Methoxychlor	ND	7E+01	
8001-35-2	39400	Toxaphene	ND	7E+03	
12674-11-2	34671	Aroclor-1016	ND	2E+03	
11104-28-2	39488	Aroclor-1221	ND	2E+03	
11141-16-5	39492	Aroclor-1232	ND	2E+03	
<b>53469-21-9</b>	<b>39496</b>	<b>Aroclor-1242</b>	<b>5,200</b>	<b>2E+03</b>	
12672-29-6	39500	Aroclor-1248	ND	2E+03	
11097-69-1	39504	Aroclor-1254	ND	2E+03	
11096-82-5	39508	Aroclor-1260	ND	2E+03	
11100-14-4	81649	Aroclor-1262	ND	2E+03	
37324-23-5	81650	Aroclor-1268	ND	2E+03	

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06301  
ANALYTICAL RESULTS CONT.

Sample Recovery for Surrogate Compound:	Observed Recoveries (%)
Decachlorobiphenyl	96
2,4,5,6-Tetrachloro-m-xylene	25

FACILITY SAMPLED:

JARD INC

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06302

DATE OF COLLECTION: 09/17/97

DATE OF EXTRACTION: 09/25/97

DATE OF ANALYSIS: 10/08/97

DRY WEIGHT EXTRACTED 3.30

WET WEIGHT EXTRACTED 3.46

Matrix: Soil

Final Volume: 5mL

Percent Moisture: 5

Extract Dilution: NONE

Report Factor: 0.9

## SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/Kg)	RL (ug/Kg)	Qualifier or Comment
309-00-2	39330	Aldrin	ND	7E+00	
319-84-6	39337	alpha-BHC	ND	7E+00	
319-85-7	39338	beta-BHC	ND	7E+00	
319-86-8	34259	delta-BHC	ND	7E+00	
58-89-9	39340	gamma-BHC	ND	7E+00	
5103-71-9	---	alpha-Chlordane	ND	7E+00	
5103-74-2	---	gamma-Chlordane	ND	7E+00	
57-74-9	39350	Chlordane (technical)	ND	7E+02	
72-54-8	39310	4,4'-DDD	ND	7E+00	
72-55-9	39320	4,4'-DDE	ND	7E+00	
50-29-3	39300	4,4'-DDT	ND	7E+00	
60-57-1	39380	Dieldrin	ND	7E+00	
959-98-8	34361	Endosulfan I	ND	7E+00	
33212-65-9	34356	Endosulfan II	ND	7E+00	
1031-078	34351	Endosulfan sulfate	ND	7E+00	
72-20-8	39390	Endrin	ND	7E+00	
7421-93-4	34366	Endrin aldehyde	ND	7E+00	
53494-70-5	---	Endrin ketone	ND	7E+00	
76-44-8	39410	Heptachlor	ND	7E+00	
1024-57-3	39420	Heptachlor epoxide	ND	7E+00	
72-43-5	---	Methoxychlor	ND	7E+00	
8001-35-2	39400	Toxaphene	ND	7E+02	
12674-11-2	34671	Aroclor-1016	ND	2E+02	
11104-28-2	39488	Aroclor-1221	ND	2E+02	
11141-16-5	39492	Aroclor-1232	ND	2E+02	
53469-21-9	39496	Aroclor-1242	950	2E+02	
12672-29-6	39500	Aroclor-1248	ND	2E+02	
11097-69-1	39504	Aroclor-1254	ND	2E+02	
11096-82-5	39508	Aroclor-1260	ND	2E+02	
11100-14-4	81649	Aroclor-1262	ND	2E+02	
37324-23-5	81650	Aroclor-1268	ND	2E+02	

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06302  
ANALYTICAL RESULTS CONT.

Sample Recovery for Surrogate Compound:	Observed Recoveries (%)
Decachlorobiphenyl	94
2,4,5,6-Tetrachloro-m-xylene	67

FACILITY SAMPLED:

JARD INC

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06303

DATE OF COLLECTION: 09/17/97

DATE OF EXTRACTION: 09/25/97

DATE OF ANALYSIS: 10/08/97

DRY WEIGHT EXTRACTED 3.06

WET WEIGHT EXTRACTED 3.31

Matrix:

Soil

Final Volume:

5mL

Percent Moisture:

8

Extract Dilution:

50X

Report Factor:

48

## SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/Kg)	RL (ug/Kg)	Qualifier or Comment
309-00-2	39330	Aldrin	ND	4E+02	
319-84-6	39337	alpha-BHC	ND	4E+02	
319-85-7	39338	beta-BHC	ND	4E+02	
319-86-8	34259	delta-BHC	ND	4E+02	
58-89-9	39340	gamma-BHC	ND	4E+02	
5103-71-9	---	alpha-Chlordane	ND	4E+02	
5103-74-2	---	gamma-Chlordane	ND	4E+02	
57-74-9	39350	Chlordane (technical)	ND	4E+04	
72-54-8	39310	4,4'-DDD	ND	4E+02	
72-55-9	39320	4,4'-DDE	ND	4E+02	
50-29-3	39300	4,4'-DDT	ND	4E+02	
60-57-1	39380	Dieldrin	ND	4E+02	
959-98-8	34361	Endosulfan I	ND	4E+02	
33212-65-9	34356	Endosulfan II	ND	4E+02	
1031-078	34351	Endosulfan sulfate	ND	4E+02	
72-20-8	39390	Endrin	ND	4E+02	
7421-93-4	34366	Endrin aldehyde	ND	4E+02	
53494-70-5	---	Endrin ketone	ND	4E+02	
76-44-8	39410	Heptachlor	ND	4E+02	
1024-57-3	39420	Heptachlor epoxide	ND	4E+02	
72-43-5	---	Methoxychlor	ND	4E+02	
8001-35-2	39400	Toxaphene	ND	4E+04	
12674-11-2	34671	Aroclor-1016	ND	1E+04	
11104-28-2	39488	Aroclor-1221	ND	1E+04	
11141-16-5	39492	Aroclor-1232	ND	1E+04	
53469-21-9	39496	Aroclor-1242	46,000	1E+04	
12672-29-6	39500	Aroclor-1248	ND	1E+04	
11097-69-1	39504	Aroclor-1254	ND	1E+04	
11096-82-5	39508	Aroclor-1260	ND	1E+04	
11100-14-4	81649	Aroclor-1262	ND	1E+04	
37324-23-5	81650	Aroclor-1268	ND	1E+04	

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06303  
ANALYTICAL RESULTS CONT.

Sample Recovery for Surrogate Compound:	Observed Recoveries (%)
Decachlorobiphenyl	NA
2,4,5,6-Tetrachloro-m-xylene	NA

FACILITY SAMPLED:

JARD INC

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06304

DATE OF COLLECTION: 09/17/97

DATE OF EXTRACTION: 09/25/97

DATE OF ANALYSIS: 10/09/97

DRY WEIGHT EXTRACTED 3.42

WET WEIGHT EXTRACTED 3.77

Matrix: Soil  
 Final Volume: 5mL  
 Percent Moisture: 9  
 Extract Dilution: 10X  
 Report Factor: 8.6

## SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/Kg)	RL (ug/Kg)	Qualifier or Comment
309-00-2	39330	Aldrin	ND	7E+01	
319-84-6	39337	alpha-BHC	ND	7E+01	
319-85-7	39338	beta-BHC	ND	7E+01	
319-86-8	34259	delta-BHC	ND	7E+01	
58-89-9	39340	gamma-BHC	ND	7E+01	
5103-71-9	---	alpha-Chlordane	ND	7E+01	
5103-74-2	---	gamma-Chlordane	ND	7E+01	
57-74-9	39350	Chlordane (technical)	ND	7E+03	
72-54-8	39310	4,4'-DDD	ND	7E+01	
72-55-9	39320	4,4'-DDE	ND	7E+01	
50-29-3	39300	4,4'-DDT	ND	7E+01	
60-57-1	39380	Dieldrin	ND	7E+01	
959-98-8	34361	Endosulfan I	ND	7E+01	
33212-65-9	34356	Endosulfan II	ND	7E+01	
1031-078	34351	Endosulfan sulfate	ND	7E+01	
72-20-8	39390	Endrin	ND	7E+01	
7421-93-4	34366	Endrin aldehyde	ND	7E+01	
53494-70-5	---	Endrin ketone	ND	7E+01	
76-44-8	39410	Heptachlor	ND	7E+01	
1024-57-3	39420	Heptachlor epoxide	ND	7E+01	
72-43-5	---	Methoxychlor	ND	7E+01	
8001-35-2	39400	Toxaphene	ND	7E+03	
12674-11-2	34671	Aroclor-1016	ND	2E+03	
11104-28-2	39488	Aroclor-1221	ND	2E+03	
11141-16-5	39492	Aroclor-1232	ND	2E+03	
<b>53469-21-9</b>	<b>39496</b>	<b>Aroclor-1242</b>	<b>9,600</b>	<b>2E+03</b>	
12672-29-6	39500	Aroclor-1248	ND	2E+03	
11097-69-1	39504	Aroclor-1254	ND	2E+03	
11096-82-5	39508	Aroclor-1260	ND	2E+03	
11100-14-4	81649	Aroclor-1262	ND	2E+03	
37324-23-5	81650	Aroclor-1268	ND	2E+03	

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06304  
ANALYTICAL RESULTS CONT.

Sample Recovery for Surrogate Compound:	Observed Recoveries (%)
Decachlorobiphenyl	97
2,4,5,6-Tetrachloro-m-xylene	88

FACILITY SAMPLED:

JARD INC

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06305

DATE OF COLLECTION: 09/17/97

DATE OF EXTRACTION: 09/25/97

DATE OF ANALYSIS: 10/09/97

DRY WEIGHT EXTRACTED 3.16

WET WEIGHT EXTRACTED 3.49

Matrix:

Soil

Final Volume:

5mL

Percent Moisture:

10

Extract Dilution:

10X

Report Factor:

9.3

## SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/Kg)	RL (ug/Kg)	Qualifier or Comment
309-00-2	39330	Aldrin	ND	7E+01	
319-84-6	39337	alpha-BHC	ND	7E+01	
319-85-7	39338	beta-BHC	ND	7E+01	
319-86-8	34259	delta-BHC	ND	7E+01	
58-89-9	39340	gamma-BHC	ND	7E+01	
5103-71-9	---	alpha-Chlordane	ND	7E+01	
5103-74-2	---	gamma-Chlordane	ND	7E+01	
57-74-9	39350	Chlordane (technical)	ND	7E+03	
72-54-8	39310	4,4'-DDD	ND	7E+01	
72-55-9	39320	4,4'-DDE	ND	7E+01	
50-29-3	39300	4,4'-DDT	ND	7E+01	
60-57-1	39380	Dieldrin	ND	7E+01	
959-98-8	34361	Endosulfan I	ND	7E+01	
33212-65-9	34356	Endosulfan II	ND	7E+01	
1031-078	34351	Endosulfan sulfate	ND	7E+01	
72-20-8	39390	Endrin	ND	7E+01	
7421-93-4	34366	Endrin aldehyde	ND	7E+01	
53494-70-5	---	Endrin ketone	ND	7E+01	
76-44-8	39410	Heptachlor	ND	7E+01	
1024-57-3	39420	Heptachlor epoxide	ND	7E+01	
72-43-5	---	Methoxychlor	ND	7E+01	
8001-35-2	39400	Toxaphene	ND	7E+03	
12674-11-2	34671	Aroclor-1016	ND	2E+03	
11104-28-2	39488	Aroclor-1221	ND	2E+03	
11141-16-5	39492	Aroclor-1232	ND	2E+03	
53469-21-9	39496	Aroclor-1242	9,300	2E+03	
12672-29-6	39500	Aroclor-1248	ND	2E+03	
11097-69-1	39504	Aroclor-1254	ND	2E+03	
11096-82-5	39508	Aroclor-1260	ND	2E+03	
11100-14-4	81649	Aroclor-1262	ND	2E+03	
37324-23-5	81650	Aroclor-1268	ND	2E+03	

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06305  
ANALYTICAL RESULTS CONT.

Sample Recovery for Surrogate Compound:	Observed Recoveries (%)
Decachlorobiphenyl	117
2,4,5,6-Tetrachloro-m-xylene	100

FACILITY SAMPLED:

JARD INC

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06306

DATE OF COLLECTION: 09/17/97

DATE OF EXTRACTION: 09/25/97

DATE OF ANALYSIS: 10/09/97

DRY WEIGHT EXTRACTED 2.31

WET WEIGHT EXTRACTED 3.46

Matrix:

Soil

Final Volume:

5mL

Percent Moisture:

33

Extract Dilution:

50X

Report Factor:

64

## SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/Kg)	RL (ug/Kg)	Qualifier or Comment
309-00-2	39330	Aldrin	ND	5E+02	
319-84-6	39337	alpha-BHC	ND	5E+02	
319-85-7	39338	beta-BHC	ND	5E+02	
319-86-8	34259	delta-BHC	ND	5E+02	
58-89-9	39340	gamma-BHC	ND	5E+02	
5103-71-9	---	alpha-Chlordane	ND	5E+02	
5103-74-2	---	gamma-Chlordane	ND	5E+02	
57-74-9	39350	Chlordane (technical)	ND	5E+04	
72-54-8	39310	4,4'-DDD	ND	5E+02	
72-55-9	39320	4,4'-DDE	ND	5E+02	
50-29-3	39300	4,4'-DDT	ND	5E+02	
60-57-1	39380	Dieldrin	ND	5E+02	
959-98-8	34361	Endosulfan I	ND	5E+02	
33212-65-9	34356	Endosulfan II	ND	5E+02	
1031-078	34351	Endosulfan sulfate	ND	5E+02	
72-20-8	39390	Endrin	ND	5E+02	
7421-93-4	34366	Endrin aldehyde	ND	5E+02	
53494-70-5	---	Endrin ketone	ND	5E+02	
76-44-8	39410	Heptachlor	ND	5E+02	
1024-57-3	39420	Heptachlor epoxide	ND	5E+02	
72-43-5	---	Methoxychlor	ND	5E+02	
8001-35-2	39400	Toxaphene	ND	5E+04	
12674-11-2	34671	Aroclor-1016	ND	1E+04	
11104-28-2	39488	Aroclor-1221	ND	1E+04	
11141-16-5	39492	Aroclor-1232	ND	1E+04	
53469-21-9	39496	Aroclor-1242	40,000	1E+04	
12672-29-6	39500	Aroclor-1248	ND	1E+04	
11097-69-1	39504	Aroclor-1254	ND	1E+04	
11096-82-5	39508	Aroclor-1260	ND	1E+04	
11100-14-4	81649	Aroclor-1262	ND	1E+04	
37324-23-5	81650	Aroclor-1268	ND	1E+04	

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06306  
ANALYTICAL RESULTS CONT.

Sample Recovery for Surrogate Compound:	Observed Recoveries (%)
Decachlorobiphenyl	NA
2,4,5,6-Tetrachloro-m-xylene	NA

## FACILITY SAMPLED:

JARD INC

## US ENVIRONMENTAL PROTECTION AGENCY

## REGION I LABORATORY

## Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06307

DATE OF COLLECTION: 09/17/97

DATE OF EXTRACTION: 09/25/97

DATE OF ANALYSIS: 10/09/97

DRY WEIGHT EXTRACTED 3.06

WET WEIGHT EXTRACTED 3.13

Matrix: Soil

Final Volume: 5mL

Percent Moisture: 2

Extract Dilution: 1000X

Report Factor: 961

## SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/Kg)	RL (ug/Kg)	Qualifier or Comment
309-00-2	39330	Aldrin	ND	8E+03	
319-84-6	39337	alpha-BHC	ND	8E+03	
319-85-7	39338	beta-BHC	ND	8E+03	
319-86-8	34259	delta-BHC	ND	8E+03	
58-89-9	39340	gamma-BHC	ND	8E+03	
5103-71-9	---	alpha-Chlordane	ND	8E+03	
5103-74-2	---	gamma-Chlordane	ND	8E+03	
57-74-9	39350	Chlordane (technical)	ND	8E+05	
72-54-8	39310	4,4'-DDD	ND	8E+03	
72-55-9	39320	4,4'-DDE	ND	8E+03	
50-29-3	39300	4,4'-DDT	ND	8E+03	
60-57-1	39380	Dieldrin	ND	8E+03	
959-98-8	34361	Endosulfan I	ND	8E+03	
33212-65-9	34356	Endosulfan II	ND	8E+03	
1031-078	34351	Endosulfan sulfate	ND	8E+03	
72-20-8	39390	Endrin	ND	8E+03	
7421-93-4	34366	Endrin aldehyde	ND	8E+03	
53494-70-5	---	Endrin ketone	ND	8E+03	
76-44-8	39410	Heptachlor	ND	8E+03	
1024-57-3	39420	Heptachlor epoxide	ND	8E+03	
72-43-5	---	Methoxychlor	ND	8E+03	
8001-35-2	39400	Toxaphene	ND	8E+05	
12674-11-2	34671	Aroclor-1016	ND	2E+05	
11104-28-2	39488	Aroclor-1221	ND	2E+05	
11141-16-5	39492	Aroclor-1232	ND	2E+05	
53469-21-9	39496	Aroclor-1242	3,800,000	2E+05	
12672-29-6	39500	Aroclor-1248	ND	2E+05	
11097-69-1	39504	Aroclor-1254	ND	2E+05	
11096-82-5	39508	Aroclor-1260	ND	2E+05	
11100-14-4	81649	Aroclor-1262	ND	2E+05	
37324-23-5	81650	Aroclor-1268	ND	2E+05	

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06307  
ANALYTICAL RESULTS CONT.

Sample Recovery for Surrogate Compound:	Observed Recoveries (%)
Decachlorobiphenyl	NA
2,4,5,6-Tetrachloro-m-xylene	NA

FACILITY SAMPLED:

JARD INC

US ENVIRONMENTAL PROTECTION AGENCY

REGION I LABORATORY

Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06308

DATE OF COLLECTION: 09/17/97

DATE OF EXTRACTION: 09/25/97

DATE OF ANALYSIS: 10/09/97

DRY WEIGHT EXTRACTED 3.05

WET WEIGHT EXTRACTED 3.31

Matrix:

Soil

Final Volume:

5mL

Percent Moisture:

8

Extract Dilution:

2000X

Report Factor:

1929

## SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/Kg)	RL (ug/Kg)	Qualifier or Comment
309-00-2	39330	Aldrin	ND	2E+04	
319-84-6	39337	alpha-BHC	ND	2E+04	
319-85-7	39338	beta-BHC	ND	2E+04	
319-86-8	34259	delta-BHC	ND	2E+04	
58-89-9	39340	gamma-BHC	ND	2E+04	
5103-71-9	---	alpha-Chlordane	ND	2E+04	
5103-74-2	---	gamma-Chlordane	ND	2E+04	
57-74-9	39350	Chlordane (technical)	ND	2E+06	
72-54-8	39310	4,4'-DDD	ND	2E+04	
72-55-9	39320	4,4'-DDE	ND	2E+04	
50-29-3	39300	4,4'-DDT	ND	2E+04	
60-57-1	39380	Dieldrin	ND	2E+04	
959-98-8	34361	Endosulfan I	ND	2E+04	
33212-65-9	34356	Endosulfan II	ND	2E+04	
1031-078	34351	Endosulfan sulfate	ND	2E+04	
72-20-8	39390	Endrin	ND	2E+04	
7421-93-4	34366	Endrin aldehyde	ND	2E+04	
53494-70-5	---	Endrin ketone	ND	2E+04	
76-44-8	39410	Heptachlor	ND	2E+04	
1024-57-3	39420	Heptachlor epoxide	ND	2E+04	
72-43-5	---	Methoxychlor	ND	2E+04	
8001-35-2	39400	Toxaphene	ND	2E+06	
12674-11-2	34671	Aroclor-1016	ND	4E+05	
11104-28-2	39488	Aroclor-1221	ND	4E+05	
11141-16-5	39492	Aroclor-1232	ND	4E+05	
53469-21-9	39496	Aroclor-1242	5,200,000	4E+05	
12672-29-6	39500	Aroclor-1248	ND	4E+05	
11097-69-1	39504	Aroclor-1254	ND	4E+05	
11096-82-5	39508	Aroclor-1260	ND	4E+05	
11100-14-4	81649	Aroclor-1262	ND	4E+05	
37324-23-5	81650	Aroclor-1268	ND	4E+05	

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06308  
ANALYTICAL RESULTS CONT.

Sample Recovery for Surrogate Compound:	Observed Recoveries (%)
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Decachlorobiphenyl	NA
2,4,5,6-Tetrachloro-m-xylene	NA



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 1  
ENVIRONMENTAL SERVICES DIVISION  
60 WESTVIEW STREET  
LEXINGTON, MASSACHUSETTS 02173-3185

*Mary Ellen Stanton*

DATE: October 9, 1997

SUBJ: Analysis of Pesticides and PCB's in Wipe Samples - JARD INC

FROM: Peter Philbrook, Chemistry Section

THRU: Dr. William J. Andrade, Advanced Analytical Chemistry Specialist  
*WJA 10/14/97*

TO: Mary Ellen Stanton

PROJECT NUMBER: 97614

ANALYTICAL PROCEDURE:

All samples were received and logged in by the laboratory according to the SOP for Sample Log-In (EIA-ADMLOGN1.SOP, 7/97).

The wipe samples were extracted with 10 ml of hexane in a wrist shaker for 60 min. The extracts were then screened on a 15m, DB-5 capillary column using a Perkin Elmer 8500 gas chromatograph. Qualitative and quantitative analyses were done on a dual capillary system, Hewlett Packard 5890 gas chromatograph with two 30m, 25 micron film thickness, 0.25mm, capillary columns (DB-1701 and DB-5).

The analytical support for this report was performed by AARP contractors.

Date samples received by the laboratory: 09/18/97

Date Analysis Started: 09/18/97

CC:

File: J:\CHEMISTRY\REPORTS\PCB-PEST\97614WI.PCB

US ENVIRONMENTAL PROTECTION AGENCY  
60 Westview Street  
Lexington, MA 02173

QUALITY CONTROL:

1. One method blank was included in the analysis.
2. Each sample was spiked with 10 ug of a surrogate compound, decachlorobiphenyl. The results for the surrogate recoveries are reported with each sample.
3. One laboratory fortified blank (LFB) wipe was spiked with the following compounds. The recovery is listed below.

Compound	Recovery (%)
Aldrin	76
gamma-BHC	68
4,4'-DDT	63
Dieldrin	64
Endrin	68
Heptachlor	70

SAMPLES ANALYZED: BLANK, LFB, 06309, 06310, 06311, 06312, 06313,  
08436, 08496

US ENVIRONMENTAL PROTECTION AGENCY  
60 Westview Street  
Lexington, MA 02173

Chemist who reviewed data: Peter Philbrook

Holding times meet (Y/N): Yes

Extraction (Water - 7 days, Soils - 14 days)

Analytical (40 days after extraction)

Method modifications: None

Limitations of data: None

Laboratory blank problems: None

Instrument performance problems: None

Surrogate and spike recovery problems: None

Additional comments: None

FACILITY SAMPLED: JARD INC

US ENVIRONMENTAL PROTECTION AGENCY  
 REGION I LABORATORY  
 Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.:	BLANK	MATRIX:	Wipe
DATE SAMPLED:	09/17/97	FINAL VOLUME:	10mL
DATE EXTRACTED:	09/18/97	DILUTION:	NONE
DATE ANALYZED:	10/02/97	REPORT FACTOR:	1.0
AMOUNT EXTRACTED: 1 WIPE			

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (ug/Wipe)	RL (ug/Wipe)	Qualifier or Comment
309-00-2	Aldrin	ND	0.05	
319-84-6	alpha-BHC	ND	0.05	
319-85-7	beta-BHC	ND	0.05	
319-86-8	delta-BHC	ND	0.05	
58-89-9	gamma-BHC	ND	0.05	
5103-71-9	alpha-Chlordane	ND	0.05	
5103-74-2	gamma-Chlordane	ND	0.05	
57-74-9	Chlordane (technical)	ND	1.00	
72-54-8	4,4'-DDD	ND	0.05	
72-55-9	4,4'-DDE	ND	0.05	
50-29-3	4,4'-DDT	ND	0.05	
60-57-1	Dieldrin	ND	0.05	
959-98-8	Endosulfan I	ND	0.05	
33212-65-9	Endosulfan II	ND	0.05	
1031-07-8	Endosulfan Sulfate	ND	0.05	
72-20-8	Endrin	ND	0.05	
7421-93-4	Endrin Aldehyde	ND	0.05	
53494-70-5	Endrin Ketone	ND	0.05	
76-44-8	Heptachlor	ND	0.05	
1024-57-3	Heptachlor Epoxide	ND	0.05	
72-43-5	Methoxychlor	ND	0.05	
8001-35-2	Toxaphene	ND	1.00	
12674-11-2	Aroclor-1016	ND	1.00	
11104-28-2	Aroclor-1221	ND	1.00	
11141-16-5	Aroclor-1232	ND	1.00	
53469-21-9	Aroclor-1242	ND	1.00	
12672-29-6	Aroclor-1248	ND	1.00	
11097-69-1	Aroclor-1254	ND	1.00	
11096-82-5	Aroclor-1260	ND	1.00	
11100-14-4	Aroclor-1262	ND	1.00	
37324-23-5	Aroclor-1268	ND	1.00	

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: BLANK  
ANALYTICAL RESULTS CONT.

Sample Recovery for Surrogate Compound:	Observed Recoveries (%)
--	----------------------------

Decachlorobiphenyl	77
2,4,5,6-Tetrachloro-m-xylene	73

Notes:

RL = Reporting limit  
ND = None detected at the RL  
~ = Approximate value  
< = Less than  
> = Greater than  
NA = Not available due to dilution or interference  
E = Estimated value exceeds the calibration range  
L = Estimated value is below the calibration range  
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contaminant in the sample extract is less than ten times the concentration in the blank.  
P = The confirmation exceeded 35% difference and is less than 100%. The lower value is reported.  
C = Confirmation by GC/MS  
D = Detected but too low to quantitate.

FACILITY SAMPLED: JARD INC

US ENVIRONMENTAL PROTECTION AGENCY  
 REGION I LABORATORY  
 Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.:	06309	MATRIX:	Wipe
DATE SAMPLED:	09/17/97	FINAL VOLUME:	10mL
DATE EXTRACTED:	09/18/97	DILUTION:	10X
DATE ANALYZED:	10/02/97	REPORT FACTOR:	10.0
AMOUNT EXTRACTED:1 WIPE			

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (ug/Wipe)	RL (ug/Wipe)	Qualifier or Comment
309-00-2	Aldrin	ND	0.50	
319-84-6	alpha-BHC	ND	0.50	
319-85-7	beta-BHC	ND	0.50	
319-86-8	delta-BHC	ND	0.50	
58-89-9	gamma-BHC	ND	0.50	
5103-71-9	alpha-Chlordane	ND	0.50	
5103-74-2	gamma-Chlordane	ND	0.50	
57-74-9	Chlordane (technical)	ND	10.00	
72-54-8	4,4'-DDD	ND	0.50	
72-55-9	4,4'-DDE	ND	0.50	
50-29-3	4,4'-DDT	ND	0.50	
60-57-1	Dieldrin	ND	0.50	
959-98-8	Endosulfan I	ND	0.50	
33212-65-9	Endosulfan II	ND	0.50	
1031-07-8	Endosulfan Sulfate	ND	0.50	
72-20-8	Endrin	ND	0.50	
7421-93-4	Endrin Aldehyde	ND	0.50	
53494-70-5	Endrin Ketone	ND	0.50	
76-44-8	Heptachlor	ND	0.50	
1024-57-3	Heptachlor Epoxide	ND	0.50	
72-43-5	Methoxychlor	ND	0.50	
8001-35-2	Toxaphene	ND	10.00	
12674-11-2	Aroclor-1016	ND	10.00	
11104-28-2	Aroclor-1221	ND	10.00	
11141-16-5	Aroclor-1232	ND	10.00	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>110</b>	<b>10.00</b>	
12672-29-6	Aroclor-1248	ND	10.00	
11097-69-1	Aroclor-1254	ND	10.00	
11096-82-5	Aroclor-1260	ND	10.00	
11100-14-4	Aroclor-1262	ND	10.00	
37324-23-5	Aroclor-1268	ND	10.00	

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06309  
ANALYTICAL RESULTS CONT.

Sample Recovery for Surrogate Compound:	Observed Recoveries (%)
Decachlorobiphenyl	94
2,4,5,6-Tetrachloro-m-xylene	92

FACILITY SAMPLED: JARD INC

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY

Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06310  
DATE SAMPLED: 09/17/97  
DATE EXTRACTED: 09/18/97  
DATE ANALYZED: 10/02/97  
AMOUNT EXTRACTED: 1 WIPE

MATRIX: Wipe  
FINAL VOLUME: 10mL  
DILUTION: 5x  
REPORT FACTOR: 5.0

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (ug/Wipe)	RL (ug/Wipe)	Qualifier or Comment
309-00-2	Aldrin	ND	0.25	
319-84-6	alpha-BHC	ND	0.25	
319-85-7	beta-BHC	ND	0.25	
319-86-8	delta-BHC	ND	0.25	
58-89-9	gamma-BHC	ND	0.25	
5103-71-9	alpha-Chlordane	ND	0.25	
5103-74-2	gamma-Chlordane	ND	0.25	
57-74-9	Chlordane (technical)	ND	5.00	
72-54-8	4,4'-DDD	ND	0.25	
72-55-9	4,4'-DDE	ND	0.25	
50-29-3	4,4'-DDT	ND	0.25	
60-57-1	Dieldrin	ND	0.25	
959-98-8	Endosulfan I	ND	0.25	
33212-65-9	Endosulfan II	ND	0.25	
1031-07-8	Endosulfan Sulfate	ND	0.25	
72-20-8	Endrin	ND	0.25	
7421-93-4	Endrin Aldehyde	ND	0.25	
53494-70-5	Endrin Ketone	ND	0.25	
76-44-8	Heptachlor	ND	0.25	
1024-57-3	Heptachlor Epoxide	ND	0.25	
72-43-5	Methoxychlor	ND	0.25	
8001-35-2	Toxaphene	ND	5.00	
12674-11-2	Aroclor-1016	ND	5.00	
11104-28-2	Aroclor-1221	ND	5.00	
11141-16-5	Aroclor-1232	ND	5.00	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>52</b>	<b>5.00</b>	
12672-29-6	Aroclor-1248	ND	5.00	
11097-69-1	Aroclor-1254	ND	5.00	
11096-82-5	Aroclor-1260	ND	5.00	
11100-14-4	Aroclor-1262	ND	5.00	
37324-23-5	Aroclor-1268	ND	5.00	

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06310  
ANALYTICAL RESULTS CONT.

Sample Recovery for Surrogate Compound:	Observed Recoveries (%)
Decachlorobiphenyl	90
2,4,5,6-Tetrachloro-m-xylene	93

FACILITY SAMPLED: JARD INC

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY

Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06311

DATE SAMPLED: 09/17/97

DATE EXTRACTED: 09/18/97

DATE ANALYZED: 10/02/97

AMOUNT EXTRACTED: 1 WIPE

MATRIX:

FINAL VOLUME:

DILUTION:

REPORT FACTOR:

Wipe

10mL

200X

200

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (ug/Wipe)	RL (ug/Wipe)	Qualifier or Comment
309-00-2	Aldrin	ND	10	
319-84-6	alpha-BHC	ND	10	
319-85-7	beta-BHC	ND	10	
319-86-8	delta-BHC	ND	10	
58-89-9	gamma-BHC	ND	10	
5103-71-9	alpha-Chlordane	ND	10	
5103-74-2	gamma-Chlordane	ND	10	
57-74-9	Chlordane (technical)	ND	200	
72-54-8	4,4'-DDD	ND	10	
72-55-9	4,4'-DDE	ND	10	
50-29-3	4,4'-DDT	ND	10	
60-57-1	Dieldrin	ND	10	
959-98-8	Endosulfan I	ND	10	
33212-65-9	Endosulfan II	ND	10	
1031-07-8	Endosulfan Sulfate	ND	10	
72-20-8	Endrin	ND	10	
7421-93-4	Endrin Aldehyde	ND	10	
53494-70-5	Endrin Ketone	ND	10	
76-44-8	Heptachlor	ND	10	
1024-57-3	Heptachlor Epoxide	ND	10	
72-43-5	Methoxychlor	ND	10	
8001-35-2	Toxaphene	ND	200	
12674-11-2	Aroclor-1016	ND	200	
11104-28-2	Aroclor-1221	ND	200	
11141-16-5	Aroclor-1232	ND	200	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>1600</b>	<b>200</b>	
12672-29-6	Aroclor-1248	ND	200	
11097-69-1	Aroclor-1254	ND	200	
11096-82-5	Aroclor-1260	ND	200	
11100-14-4	Aroclor-1262	ND	200	
37324-23-5	Aroclor-1268	ND	200	

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06311  
ANALYTICAL RESULTS CONT.

Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

Decachlorobiphenyl  
2,4,5,6-Tetrachloro-m-xylene

NA  
NA

FACILITY SAMPLED: JARD INC

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY

Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06312  
DATE SAMPLED: 09/17/97  
DATE EXTRACTED: 09/18/97  
DATE ANALYZED: 10/02/97  
AMOUNT EXTRACTED: 1 WIPE

MATRIX: Wipe  
FINAL VOLUME: 10mL  
DILUTION: 50X  
REPORT FACTOR: 50

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (ug/Wipe)	RL (ug/Wipe)	Qualifier or Comment
309-00-2	Aldrin	ND	2.5	
319-84-6	alpha-BHC	ND	2.5	
319-85-7	beta-BHC	ND	2.5	
319-86-8	delta-BHC	ND	2.5	
58-89-9	gamma-BHC	ND	2.5	
5103-71-9	alpha-Chlordane	ND	2.5	
5103-74-2	gamma-Chlordane	ND	2.5	
57-74-9	Chlordane (technical)	ND	50	
72-54-8	4,4'-DDD	ND	2.5	
72-55-9	4,4'-DDE	ND	2.5	
50-29-3	4,4'-DDT	ND	2.5	
60-57-1	Dieldrin	ND	2.5	
959-98-8	Endosulfan I	ND	2.5	
33212-65-9	Endosulfan II	ND	2.5	
1031-07-8	Endosulfan Sulfate	ND	2.5	
72-20-8	Endrin	ND	2.5	
7421-93-4	Endrin Aldehyde	ND	2.5	
53494-70-5	Endrin Ketone	ND	2.5	
76-44-8	Heptachlor	ND	2.5	
1024-57-3	Heptachlor Epoxide	ND	2.5	
72-43-5	Methoxychlor	ND	2.5	
8001-35-2	Toxaphene	ND	50	
12674-11-2	Aroclor-1016	ND	50	
11104-28-2	Aroclor-1221	ND	50	
11141-16-5	Aroclor-1232	ND	50	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>260</b>	<b>50</b>	
12672-29-6	Aroclor-1248	ND	50	
11097-69-1	Aroclor-1254	ND	50	
11096-82-5	Aroclor-1260	ND	50	
11100-14-4	Aroclor-1262	ND	50	
37324-23-5	Aroclor-1268	ND	50	

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
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SAMPLE NO.: 06312  
ANALYTICAL RESULTS CONT.

Sample Recovery for Surrogate Compound:	Observed Recoveries (%)
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Decachlorobiphenyl	NA
2,4,5,6-Tetrachloro-m-xylene	NA

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US ENVIRONMENTAL PROTECTION AGENCY  
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Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06313

DATE SAMPLED: 09/17/97

DATE EXTRACTED: 09/18/97

DATE ANALYZED: 10/02/97

AMOUNT EXTRACTED: 1 WIPE

MATRIX:

FINAL VOLUME:

DILUTION:

REPORT FACTOR:

Wipe

10mL

NONE

1.0

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (ug/Wipe)	RL (ug/Wipe)	Qualifier or Comment
309-00-2	Aldrin	ND	0.05	
319-84-6	alpha-BHC	ND	0.05	
319-85-7	beta-BHC	ND	0.05	
319-86-8	delta-BHC	ND	0.05	
58-89-9	gamma-BHC	ND	0.05	
5103-71-9	alpha-Chlordane	ND	0.05	
5103-74-2	gamma-Chlordane	ND	0.05	
57-74-9	Chlordane (technical)	ND	1.00	
72-54-8	4,4'-DDD	ND	0.05	
72-55-9	4,4'-DDE	ND	0.05	
50-29-3	4,4'-DDT	ND	0.05	
60-57-1	Dieldrin	ND	0.05	
959-98-8	Endosulfan I	ND	0.05	
33212-65-9	Endosulfan II	ND	0.05	
1031-07-8	Endosulfan Sulfate	ND	0.05	
72-20-8	Endrin	ND	0.05	
7421-93-4	Endrin Aldehyde	ND	0.05	
53494-70-5	Endrin Ketone	ND	0.05	
76-44-8	Heptachlor	ND	0.05	
1024-57-3	Heptachlor Epoxide	ND	0.05	
72-43-5	Methoxychlor	ND	0.05	
8001-35-2	Toxaphene	ND	1.00	
12674-11-2	Aroclor-1016	ND	1.00	
11104-28-2	Aroclor-1221	ND	1.00	
11141-16-5	Aroclor-1232	ND	1.00	
<b>53469-21-9</b>	<b>Aroclor-1242</b>	<b>14</b>	<b>1.00</b>	
12672-29-6	Aroclor-1248	ND	1.00	
11097-69-1	Aroclor-1254	ND	1.00	
11096-82-5	Aroclor-1260	ND	1.00	
11100-14-4	Aroclor-1262	ND	1.00	
37324-23-5	Aroclor-1268	ND	1.00	

US ENVIRONMENTAL PROTECTION AGENCY  
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Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 06313  
ANALYTICAL RESULTS CONT.

Sample Recovery for Surrogate Compound:	Observed Recoveries (%)
Decachlorobiphenyl	78
2,4,5,6-Tetrachloro-m-xylene	70

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US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY

Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 08436

DATE SAMPLED: 09/17/97

DATE EXTRACTED: 09/18/97

DATE ANALYZED: 10/02/97

AMOUNT EXTRACTED: 1 WIPE

MATRIX:

FINAL VOLUME:

DILUTION:

REPORT FACTOR:

Wipe

10mL

NONE

1.0

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (ug/Wipe)	RL (ug/Wipe)	Qualifier or Comment
309-00-2	Aldrin	ND	0.05	
319-84-6	alpha-BHC	ND	0.05	
319-85-7	beta-BHC	ND	0.05	
319-86-8	delta-BHC	ND	0.05	
58-89-9	gamma-BHC	ND	0.05	
5103-71-9	alpha-Chlordane	ND	0.05	
5103-74-2	gamma-Chlordane	ND	0.05	
57-74-9	Chlordane (technical)	ND	1.00	
72-54-8	4,4'-DDD	ND	0.05	
72-55-9	4,4'-DDE	ND	0.05	
50-29-3	4,4'-DDT	ND	0.05	
60-57-1	Dieldrin	ND	0.05	
959-98-8	Endosulfan I	ND	0.05	
33212-65-9	Endosulfan II	ND	0.05	
1031-07-8	Endosulfan Sulfate	ND	0.05	
72-20-8	Endrin	ND	0.05	
7421-93-4	Endrin Aldehyde	ND	0.05	
53494-70-5	Endrin Ketone	ND	0.05	
76-44-8	Heptachlor	ND	0.05	
1024-57-3	Heptachlor Epoxide	ND	0.05	
72-43-5	Methoxychlor	ND	0.05	
8001-35-2	Toxaphene	ND	1.00	
12674-11-2	Aroclor-1016	ND	1.00	
11104-28-2	Aroclor-1221	ND	1.00	
11141-16-5	Aroclor-1232	ND	1.00	
53469-21-9	Aroclor-1242	ND	1.00	
12672-29-6	Aroclor-1248	ND	1.00	
11097-69-1	Aroclor-1254	ND	1.00	
11096-82-5	Aroclor-1260	ND	1.00	
11100-14-4	Aroclor-1262	ND	1.00	
37324-23-5	Aroclor-1268	ND	1.00	

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 08436  
ANALYTICAL RESULTS CONT.

Sample Recovery for Surrogate Compound:	Observed Recoveries (%)
Decachlorobiphenyl	78
2,4,5,6-Tetrachloro-m-xylene	72

FACILITY SAMPLED: JARD INC

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY

Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 08496  
DATE SAMPLED: 09/17/97  
DATE EXTRACTED: 09/18/97  
DATE ANALYZED: 10/02/97  
AMOUNT EXTRACTED: 1 WIPE

MATRIX: Wipe  
FINAL VOLUME: 10mL  
DILUTION: 200X  
REPORT FACTOR: 200

SAMPLE RESULTS:

CAS NO.	Compound	Conc. (ug/Wipe)	RL (ug/Wipe)	Qualifier or Comment
309-00-2	Aldrin	ND	10	
319-84-6	alpha-BHC	ND	10	
319-85-7	beta-BHC	ND	10	
319-86-8	delta-BHC	ND	10	
58-89-9	gamma-BHC	ND	10	
5103-71-9	alpha-Chlordane	ND	10	
5103-74-2	gamma-Chlordane	ND	10	
57-74-9	Chlordane (technical)	ND	200	
72-54-8	4,4'-DDD	ND	10	
72-55-9	4,4'-DDE	ND	10	
50-29-3	4,4'-DDT	ND	10	
60-57-1	Dieldrin	ND	10	
959-98-8	Endosulfan I	ND	10	
33212-65-9	Endosulfan II	ND	10	
1031-07-8	Endosulfan Sulfate	ND	10	
72-20-8	Endrin	ND	10	
7421-93-4	Endrin Aldehyde	ND	10	
53494-70-5	Endrin Ketone	ND	10	
76-44-8	Heptachlor	ND	10	
1024-57-3	Heptachlor Epoxide	ND	10	
72-43-5	Methoxychlor	ND	10	
8001-35-2	Toxaphene	ND	200	
12674-11-2	Aroclor-1016	ND	200	
11104-28-2	Aroclor-1221	ND	200	
11141-16-5	Aroclor-1232	ND	200	
53469-21-9	Aroclor-1242	1300	200	
12672-29-6	Aroclor-1248	ND	200	
11097-69-1	Aroclor-1254	ND	200	
11096-82-5	Aroclor-1260	ND	200	
11100-14-4	Aroclor-1262	ND	200	
37324-23-5	Aroclor-1268	ND	200	

US ENVIRONMENTAL PROTECTION AGENCY  
REGION I LABORATORY  
Chlorinated Pesticides and Polychlorinated Biphenyls

SAMPLE NO.: 08496  
ANALYTICAL RESULTS CONT.

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Sample Recovery for  
Surrogate Compound:

Observed  
Recoveries (%)

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Decachlorobiphenyl  
2,4,5,6-Tetrachloro-m-xylene

NA  
NA  
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